

according to Regulation (EC) No 1907/2006

### Phenol > 99 % for analysis, ACS

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

#### 1.1. Product identifier

Phenol > 99 % for analysis, ACS

REACH Registration Number: 01-2119471329-32-XXXX

CAS No: 108-95-2 Index No: 604-001-00-2 EC No: 203-632-7

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

#### **Further Information**

No data available

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Muta. 2; H341 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger



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#### Pictograms:









#### **Hazard statements**

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

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

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

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

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/doctor.

#### 2.3. Other hazards

No data available

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Sum formula: C6H5OH

Molecular weight: 94,11 g/mol

#### Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No 1272/2008)				
108-95-2	phenol	phenol			
	203-632-7	604-001-00-2	01-2119471329-32-XXXX		
	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H341 H331 H311 H301 H314 H373 H411				

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
108-95-2	203-632-7	phenol	100 %
	850 mg/kg; oral	= 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = : LD50 = 530 mg/kg	

### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

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#### **General information**

fast help required Call a physician immediately.

First aider: Pay attention to self-protection!

Remove affected person from the danger area and lay down.

#### After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

#### After contact with skin

Wash immediately with: Water, Polyethylene glycol 400 / Polyethylene glycol 300/ethanol (2:1)

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

(for phenol): rinse the affected skin areas with plenty of water as quickly as possible using the nearest emergency shower. Rinse with a mixture of polyethylene glycol 300 (PEG 300)/ethanol 2:1; Rinse with polyethylene glycol 300 (PEG 300). Practical experience and experimental studies have shown that the best results are achieved with the first method (PEG 300/ethanol) for practically all phenols. As far as non-chlorinated cresols and phenols are concerned, PEG 400 can also be used successfully. After rinsing with PEG 400 or PEG 300/ethanol 2:1, you should alternately rinse with plenty of water (e.g. emergency shower).

### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

(Water, to which activated charcoal may be added)

Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

Irritant, corrosive

Dyspnoea, Cough

Dizziness, Dizziness

Inebriation, Cardiac arrhythmias

Circulatory collapse, Headache

Respiratory complaints, Unconsciousness

Risk of serious damage to eyes.

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

No data available

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

### Unsuitable extinguishing media

no restriction

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

Combustible solids

Danger of dust explosion.

Hazardous combustion products

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### 5.3. Advice for firefighters



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In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

#### General advice

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

**Emergency procedures** 

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Take up carefully when dry. Take up dust-free and set down dust-free.

## For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid exposure - obtain special instructions before use.

Keep container tightly closed.

Do not breathe dust. Avoid dust formation.

Avoid contact with skin, eyes and clothes.

Read label before use.

Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges.



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In case of warming: Vapours can form explosive mixtures with air.

Danger of dust explosion.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### Advice on general occupational hygiene

Wash contaminated clothing prior to re-use.

Avoid contact with skin, eyes and clothes.

#### Further information on handling

Wash contaminated clothing before reuse.

Wash hands before breaks and after work.

Draw up and observe skin protection programme.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed.

storage temperature: +15°C - +25°C

Store in a place accessible by authorized persons only.

### Further information on storage conditions

Store in a dry place.

Store in a well-ventilated place.

Protect against: Light

#### 7.3. Specific end use(s)

Laboratory chemicals

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
108-95-2	Phenol	2	8		TWA (8 h)	
		4	16		STEL (15 min)	

### **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-95-2	Phenol	Phenol	120 mg/g	Creatinine	End of shift

#### **DNEL/DMEL values**

CAS No	Substance							
DNEL type		Exposure route	Effect	Value				
108-95-2	phenol							
Worker DNEL,	long-term	inhalation	systemic	8 mg/m³				
Worker DNEL, acute		inhalation	local	16 mg/m³				
Worker DNEL,	long-term	dermal	systemic	1,23 mg/kg bw/day				
Consumer DN	EL, long-term	inhalation	systemic	0,452 mg/m³				
Consumer DN	EL, long-term	dermal	systemic	0,5 mg/kg bw/day				
Consumer DN	EL, long-term	oral	systemic	0,5 mg/kg bw/day				



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#### **PNEC values**

CAS No	Substance		
Environment	Value		
108-95-2	phenol		
Freshwater 0,00			
Freshwater (intermittent releases)		0,031 mg/l	
Marine water		0,001 mg/l	
Freshwater sediment		0,091 mg/kg	
Marine sediment		0,009 mg/kg	
Micro-organi	/licro-organisms in sewage treatment plants (STP)		
Soil		0,136 mg/kg	

### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

goggles

#### Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 897 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 730 Camatril® Velours Recommended material: NBR (Nitrile rubber) 0,4 mm Wearing time with occasional contact (splashes): > 144 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

## Skin protection

Wear suitable protective clothing.

Flame-retardant protective clothing, antistatic

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

#### Respiratory protection

Respiratory protection necessary at: dust formation, aerosol or mist formation

Filtering device with filter or ventilator filtering device of type: A-(P3)

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Thermal hazards

No data available



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#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

### 9.1. Information on basic physical and chemical properties

Physical state: solid
Colour: colourless
Odour: characteristic
Odour threshold: No data available

Melting point/freezing point: 40,8 °C
Boiling point or initial boiling point and 181,8 °C

boiling range:

No data available Flammability: 1.3 vol. % Lower explosion limits: Upper explosion limits: 9.5 vol. % Flash point: 81 °C Auto-ignition temperature: 595 °C Decomposition temperature: No data available pH-Value (at 20 °C): ~5 (50 g/l) Viscosity / kinematic: No data available Water solubility: 84 a/L

(at 20 °C)

Solubility in other solvents

No data available

Dissolution rate:

Partition coefficient n-octanol/water:

Dispersion stability:

Vapour pressure:

No data available
No data available
No data available
0,2 hPa

(at 20 °C)

Vapour pressure:

Density (at 20 °C):

Relative density:

Bulk density:

Relative vapour density:

No data available

No data available

No data available

No data available

Particle characteristics:

No data available

## 9.2. Other information

### Information with regard to physical hazard classes

Explosive properties

Danger of dust explosion.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Sustaining combustion:

No data available

Self-ignition temperature

Solid: 715 °C Gas: No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

Solvent separation test:

No data available

Solvent content:

No data available

No data available

No data available

No data available



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Sublimation point:No data availableSoftening point:No data availablePour point:No data available

No data available:

Viscosity / dynamic:

3,437 mPa·s

(at 50 °C)

Flow time: No data available

# Further Information

No data available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

In case of warming: Vapours can form explosive mixtures with air.

Danger of dust explosion.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

#### 10.2. Chemical stability

Protect against: Light

#### 10.3. Possibility of hazardous reactions

Aluminium, aldehydes Hydrogen peroxide, Oxidising agent Strong acid, Strong alkali Formaldehyde, Nitrites, Nitrate

#### 10.4. Conditions to avoid

Heat Light

### 10.5. Incompatible materials

Rubber articles
Plastic articles

metals (including their alloys)

#### 10.6. Hazardous decomposition products

No data available

#### **Further information**

No data available

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Toxicocinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

#### **Acute toxicity**

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Irritation to respiratory tract



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CAS No	Chemical name	Chemical name								
	Exposure route	Dose		Species	Source	Method				
108-95-2	phenol									
	oral	LD50 mg/kg	530	Rat	J Pharmacol Exp Tl 80: 233-240 (1944)					
	dermal	LD50 mg/kg	850	Rabbit	Am Ind Hyg Assoc ( 37: 596-606 (1976)					
	inhalation vapour	ATE	3 mg/l							
	inhalation dust/mist	ATE	0,5 mg/l							

#### Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

Risk of serious damage to eyes.

### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (phenol)

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (phenol)

Organs affected:

central nervous system

kidneys

liver

Haut

### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## Information on likely routes of exposure

No data available

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

#### **Practical experience**

No data available

#### 11.2. Information on other hazards

### **Endocrine disrupting properties**

No data available

### Other information

No data available

#### **Further information**

Irritant, corrosive

Dyspnoea, Cough

Dizziness, Dizziness

Inebriation, Cardiac arrhythmias

Circulatory collapse, Headache



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Respiratory complaints, Unconsciousness Risk of serious damage to eyes.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
108-95-2	phenol							
	Acute fish toxicity	LC50	8,9 mg/l	96 h	Oncorhynchus mykiss	Publication (1980)	other:	
	Acute algae toxicity	ErC50 mg/l	61,1	96 h	Raphidocelis subcapitata	Environ. Toxicol. Water Qual. 7: 35-48 (	other: US EPA	
	Acute crustacea toxicity	EC50	3,1 mg/l	48 h	Ceriodaphnia dubia	Publication (1991)	Test performance in compliance with EPA	
	Fish toxicity	NOEC mg/l	0,077	60 d	Cirrhina mrigala	Publication (1984)	Method: other	
	Crustacea toxicity	NOEC mg/l	0,16	16 d	Daphnia magna	Ecotoxicol. Envir. Saf. 15: 72-77 (1988)	other: NEN 6502	

### 12.2. Persistence and degradability

100 %; 6 d OECD 302B

Readily biodegradable (according to OECD criteria).

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-95-2	phenol	1,47

# BCF

CAS No	Chemical name	BCF	Species	Source
108-95-2	phenol	17,5	Danio rerio	Publication (1985)

### 12.4. Mobility in soil

No data available

# 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

## 12.7. Other adverse effects

Discharge into the environment must be avoided.

### **Further information**

Do not allow to enter into surface water or drains.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.



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Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1671 **14.2. UN proper shipping name:** PHENOL, SOLID

14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: 6.1 Classification code: T2 Special Provisions: 279 Limited quantity: 500 g Excepted quantity: E4 Transport category: 2 Hazard No: 60 Tunnel restriction code: D/E

### Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1671

14.2. UN proper shipping name: PHENOL, SOLID

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1Classification code:T2Special Provisions:279 802Limited quantity:500 gExcepted quantity:E4

#### Marine transport (IMDG)

14.1. UN number or ID number: UN 1671

14.2. UN proper shipping name: PHENOL, SOLID

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1Special Provisions:279Limited quantity:500 gExcepted quantity:E4EmS:F-A, S-A

### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1671

14.2. UN proper shipping name: PHENOL, SOLID

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1Special Provisions:A113Limited quantity Passenger:1 kgPassenger LQ:Y644Excepted quantity:E4

IATA-packing instructions - Passenger: 669
IATA-max. quantity - Passenger: 25 kg



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IATA-packing instructions - Cargo: 676
IATA-max. quantity - Cargo: 100 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes
Danger releasing substance: phenol

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

#### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

#### **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive

**H2 ACUTE TOXIC** 

2012/18/EU (SEVESO III):

Additional information: E2

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

#### **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 4,8.

### Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eye Dam: Eye damage Muta: Germ cell mutagenicity

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Chronic: Chronic aquatic hazard

#### Relevant H and EUH statements (number and full text)

H301 Toxic if swallowed.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H311 Toxic 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.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of



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processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users