

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 1 of 13

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

#### 1.1 Product identifier

Trade name: Phenol solution (5-20 % water content)  
Phenol:  
Location Germany: 01-2119471329-32-0000  
Location Belgium: 01-2119471329-32-0004

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

General use: Phenol is an important raw material of the chemical industry. It is used for manufacturing of Bisphenol A, Phenol-Formaldehyde-Resins and Caprolactam. Furthermore it is used for manufacturing of Alkyl Phenols, Salicylic Acid and Nitrophenols.

Identified uses:

1. Manufacture, processing and distribution of substances and mixtures \*
2. Use in laboratories
3. Uses in coatings
4. Use as binders and release agents
5. Rubber production and processing
6. Polymer manufacturing
7. Polymer processing
8. Phenolic resin processing (uses of downstream users of phenolic resins)

\* Examples for processing:  
use as an intermediate,  
use as a monomer etc.,  
use as a solvent,  
use for the manufacturing of resins.

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

Company name: INEOS Phenol GmbH  
Street/POB-No.: Dechenstraße 3  
Postal Code, city: DE-45966 Gladbeck  
WWW: [www.ineosphenol.com](http://www.ineosphenol.com)  
E-mail: [msds.phenolde@ineos.com](mailto:msds.phenolde@ineos.com)  
Telephone: +49 (0)2043 / 9 58-0  
Telefax: +49 (0)2043 / 9 58-900

Dept. responsible for information:  
Telephone: +49 (0)2043 / 9 58-0 (Department ESHQ)  
E-mail: [msds.phenolde@ineos.com](mailto:msds.phenolde@ineos.com)

Additional information: Location Belgium:  
INEOS Phenol Belgium NV  
Haven 1930 Geslecht 1, B-9130 Beveren  
Telephone: +32 3 730 13 50  
Telefax: +32 3 730 12 62

On behalf of:  
INEOS Europe AG, INEOS Phenol Division,  
3, Avenue des Uttins, 1180 Rolle, Switzerland

#### 1.4 Emergency telephone number

Telephone: +32 14 58 45 45 (B.I.G.)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 2 of 13

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EC regulation 1272/2008 (CLP)

Acute Tox. 3; H301	Toxic if swallowed.
Acute Tox. 3; H311	Toxic in contact with skin.
Acute Tox. 3; H331	Toxic if inhaled.
Skin Corr. 1B; H314	Causes severe skin burns and eye damage.
Muta. 2; H341	Suspected of causing genetic defects.
STOT RE 2; H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (CLP)



Signal word:

**Danger**

Hazard statements:	H301	Toxic if swallowed.
	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and 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.
Precautionary statements:	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe vapours.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face 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.
	P330	Rinse mouth.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.

##### Special labelling

Text for labelling: Contains Phenol.

#### 2.3 Other hazards

After resorption: Injuries of the internal organs liver, kidneys, heart.  
Strong skin absorption as main danger of phenol poisoning at the workplace with paralysis of the central nervous system (with lethal consequences in severe cases) as well as liver and kidney damage

Results of PBT and vPvB assessment:

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 3 of 13

### SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: Phenol-solution (water content 5-20 %)

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119471329-32-xxxx EC No. 203-632-7 CAS 108-95-2	Phenol, synthetic	80 - 95 %	Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 3; H331. Skin Corr. 1B; H314. Muta. 2; H341. STOT RE 2; H373. Aquatic Chronic 2; H411.
EC No. 231-791-2 CAS 7732-18-5	Water	5 - 20 %	not applicable

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General information:	First aider: Pay attention to self-protection! Move victim to fresh air, put at rest and loosen restrictive clothing. Remove contaminated clothing. If victim is at risk of losing consciousness, position and transport on their side.
In case of inhalation:	Provide for adequate fresh air. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Immediately get medical attention.
Following skin contact:	Take off immediately all contaminated clothing. Immediately get medical attention. Treat by intermittent water washes and polyethylene glycol (e.g. PEG300 or PEG400). Time is essential to prevent tissue destruction. Wash as much residue phenol from the skin as possible with water and PEG alternating at least for 30 minutes or until further medical attention is received. Gloves must be used when applying the PEG..
After eye contact:	If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Immediately get medical attention.

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

In case of inhalation:  
Mucous membrane irritation, cough, shortage of breath, damage of respiratory tract.  
After contact with skin:  
Strong skin absorption as main danger of phenol poisoning at the workplace with paralysis of the central nervous system (with lethal consequences in severe cases) as well as liver and kidney damage

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 4 of 13

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

#### Symptoms and dangers:

No specific antidote therapy for phenol poisoning is known. Therefore it is important to remove the phenol completely from the body surface and out of the body as quickly as possible, and in the case of inhalation prophylactic treatment to prevent pulmonary oedema is of great importance. Phenol causes strong caustic burns of the skin and mucous membranes due to its protein degenerating action. The skin initially discolours white, later red. After initial pain, local anaesthesia appears. Absorptive poisoning by large amounts of phenol is possible also through small affected skin regions and quickly leads to paralysis of the central nervous system as well as strong depression of the body temperature. Inhaling phenol vapours can lead to damage of the bronchial system and pulmonary oedema. Systemic damage to kidneys, liver and heart as well as neuropsychiatric disturbances are produced.

#### Treatment:

Thoroughly clean the wetted skin areas, if possible with polyethylene glycol (e.g. polyethylene glycol 300). In case of eye contact, rinse copiously with water, in case of burns rinse continuously with water as far as possible and take to an eye specialist or eye clinic. In case of inhalation, to prevent pulmonary oedema, initiate inhalative cortisone therapy as early as possible (e.g. every 10 minutes 5 strokes of a cortisone containing aerosol dosing spray); administer codeine against dry coughing. In case of commencing or manifested pulmonary oedema, systemic administration of cortisone. Caution: A low symptom or symptom-free interval is possible. If swallowed, gastric lavage after intubation, activated charcoal, saline laxative.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, Foam, water spray jet  
In enclosed areas: carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

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

Vapours are heavier than air and will spread at floor level.

In case of warming Development of explosive gases/vapours.

Hazardous vapours may form during fires.

In case of fire may be liberated: carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: 2X

Heating will lead to pressure increase: Danger of bursting and explosion. Move container away or cool with water from a protected position. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 5 of 13

### SECTION 6: Accidental release measures

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

Remove all sources of ignition. Keep upwind.  
Do not breathe vapours. Avoid contact with the substance.  
Wear suitable protective clothing. Provide adequate ventilation.  
Leaks may be repaired only with full protection (tightly closing chemical protection clothing, respirator equipment independent of the ambient air).

#### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.  
Danger to drinking water when soaking into the soil or waters. In case of entry into waterways, soil or drains, inform the responsible authorities.

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

Allow the leaked product to solidify if this is possible without endangering people. Take up mechanically, placing in appropriate containers for disposal.  
Phenol, liquid: Collect spillage. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Final cleaning.  
Collect the rinsing water when cleaning-down contaminated equipment and plant components (to prevent phenol from escaping into deep soil layers).

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advices on safe handling: Execute works under fume hood. Do not inhale substance.  
Avoid contact with skin, eyes, and clothing.  
The material is to be handled with extreme caution.  
Requires good ventilation.  
Welding operations are permitted only under supervision.

Precautions against fire and explosion:  
Keep away from sources of ignition - No smoking.

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

Requirements for storerooms and containers:  
Keep containers tightly closed and at a temperature between 15 °C and 25 °C.  
solidification point:  
water content: 80 %, 20 %: 5 °C  
water content: 90 %, 10 %: 12.3 °C  
water content: 95 %, 5 %: 22.9 °C  
Keep container in a well-ventilated place. Protect from light.  
Suitable material: steel or Refined steel.

Keep locked up. Only trained personnel may be allowed to enter storage area.

Hints on joint storage: Do not store together with food. Do not store together with: Solvent, aluminium, aldehydes, halogens, hydrogen peroxide, oxidizing agents, strong acids, strong bases, formaldehyde, nitrites, nitrates, halogenates, peroxide compounds.

Further details: Reserved for industrial and professional use.

#### 7.3 Specific end use(s)

No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 6 of 13

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
108-95-2	Phenol, synthetic	Europe: IOELV: STEL	16 mg/m <sup>3</sup> ; 4 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	8 mg/m <sup>3</sup> ; 2 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	16 mg/m <sup>3</sup> ; 4 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	7.8 mg/m <sup>3</sup> ; 2 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	16 mg/m <sup>3</sup> ; 4 ppm (may be absorbed through the skin)
		Ireland: 8 hours	8 mg/m <sup>3</sup> ; 2 ppm (may be absorbed through the skin)

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
108-95-2	Phenol, synthetic	Europe: BLV, urine	120 mg/g creatinine	phenol	no restriction

Additional information: All exposure relevant information (human health and environment) is summarised in annexes to this safety data sheet.

DNEL/DMEL: Information about phenol:  
DNEL long-term, workers, inhalative: 8 mg/m<sup>3</sup>  
DNEL long-term, workers, dermal: 1.23 mg/ kg bw/d

PNEC: Information about phenol:  
PNEC water (freshwater): 0.0077 mg/L.  
PNEC water (marine water): 0.00077 mg/L.  
PNEC sediment (freshwater): 0.0915 mg/kg dwt.  
PNEC sediment (marine water): 0.00915 mg/kg dwt.  
PNEC soil: 0.136 mg/kg dwt.

#### 8.2 Exposure controls

Execute works under fume hood. Do not inhale substance.  
The substance should only be handled in closed apparatus or systems.  
Process exhaust through separator/filter as needed.

#### Personal protection equipment

##### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 14387.

Hand protection: Protective gloves according to EN 374.  
Glove material: Neoprene, PVC  
Breakthrough time:  
140 min. (Neoprene)  
75 min. (PVC)  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Goggles (DIN EN 58211) or face protection shield.

Body protection: Wear suitable protective clothing. Material: PVC  
safety shoes according to EN 345-347.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 7 of 13

General protection and hygiene measures:

Avoid contact with skin and eyes. Take off immediately all contaminated clothing.  
When using do not eat, drink or smoke.  
Have eye wash bottle or eye rinse ready at work place.  
Keep away from food, drink and animal feedingstuffs.  
Preventive skin protection. Wash hands before breaks and immediately after handling the product. Then apply enough skin protecting cream.

Alternatives to the personal protective measures as mentioned can only be determined in agreement with a responsible safety expert.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Form: liquid Colour: colourless
Odour:	stinging
Odour threshold:	No data available
pH value:	at 20 °C, 1000 g/L: 4 - 5
Melting point/freezing point:	water content 20-5 %: 3 - 24 °C
Initial boiling point and boiling range:	water content 20-5 %: 98 - 182 °C (DIN 51 751)
Flash point/flash point range:	105 - 110 °C (DIN EN ISO 2719)
Evaporation rate:	No data available
Flammability:	Combustible
Explosion limits:	LEL (Lower Explosion Limit): Phenol 1.30 Vol-% UEL (Upper Explosive Limit): Phenol 9.00 Vol-%
Vapour pressure:	at 20 °C: 5 - 6 hPa
Vapour density:	No data available
Density:	1.048 - 1.052 g/cm <sup>3</sup> (DIN 51 757)
Water solubility:	at 25 °C: Phenol 87 g/L at 68 °C: completely miscible
Partition coefficient: n-octanol/water:	Phenol 1.47 log P(o/w) (CPC) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

### 9.2 Other information

Ignition temperature: Phenol 595 °C (DIN 51 794)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Combustible

### 10.2 Chemical stability

Stable under recommended storage conditions.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 8 of 13

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

It may react to form catechol, hydroquinone, as a result of radical formation.

Avoid ignitable vapour-air-mixtures.

### 10.5 Incompatible materials

Oxidizing agents, aldehydes, isocyanates, nitrites, nitrides, Friedel-Crafts catalysts.

Unsuitable materials: Metals, Rubber, various plastics, alloys.

### 10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity: LD50 Rat, oral: Information about Phenol: 340 mg/kg bw (OECD 401)  
LDLo human, oral: Information about Phenol: 140 mg/kg bw  
LD50 Rat, dermal: Information about Phenol: 660 mg/kg bw (OECD 402)  
LC50 Rat, inhalative: Information about Phenol: > 900 mg/m<sup>3</sup>/8h

Toxicological effects: Acute toxicity (oral): Acute Tox. 3; H301 = Toxic if swallowed.  
Acute toxicity (dermal): Acute Tox. 3; H311 = Toxic in contact with skin.  
Acute toxicity (inhalative): Acute Tox. 3; H331 = Toxic if inhaled.  
Skin corrosion/irritation: Skin Corr. 1B; H314 = Causes severe skin burns and eye damage.  
Serious eye damage/irritation: Lack of data.  
Sensitisation to the respiratory tract: Lack of data.  
Skin sensitisation: Based on available data, the classification criteria are not met. Not known to cause sensitization.  
Germ cell mutagenicity/Genotoxicity: Muta. 2; H341 = Suspected of causing genetic defects.  
Mutagenicity: Bacterial mutagenicity: negative.  
Chromosomal aberrations in-vitro: positive.  
Micronucleus test: in-vitro: positive.  
Gene-mutations mammalian cells in-vitro: positive.  
Sister chromatid exchange in-vitro: positive.  
Micronucleus test: in-vivo: weak positive.  
Carcinogenicity: Based on available data, the classification criteria are not met. Specific symptoms in animal studies: None carcinogenic effect.  
Reproductive toxicity: Based on available data, the classification criteria are not met. Specific symptoms in animal studies:  
No reproductive hazards have been observed.  
Effects on or via lactation: Lack of data.  
Specific target organ toxicity (single exposure): Lack of data.  
Specific target organ toxicity (repeated exposure): STOT RE 2; H373 = May cause damage to organs through prolonged or repeated exposure. Specific target organ toxicity: Harmful effects are not known.  
Aspiration hazard: Lack of data.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 9 of 13

Other information: Strong skin absorption as main danger of phenol poisoning at the workplace with paralysis of the central nervous system (with lethal consequences in severe cases) as well as liver and kidney damage.

### Symptoms

In case of inhalation:  
Mucous membrane irritation, cough, shortage of breath, damage of respiratory tract.  
After contact with skin:  
Strong skin absorption as main danger of phenol poisoning at the workplace with paralysis of the central nervous system (with lethal consequences in severe cases) as well as liver and kidney damage

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.  
Information about Phenol:  
Algae toxicity:  
EC50 Pseudokirchnerella subcapitata, (freshwater, cell number): 61.1 mg/L/96h.  
EC50 Entomoneis cf punctulata, (marine water, growth rate): 76 mg/L/72h.  
Bacterial toxicity:  
IC50 Nitrosomonas sp: 21 mg/L/24h.  
Daphnia toxicity:  
EC50 Ceriodaphnia dubia: 3.1 mg/L/48h.  
Fish toxicity:  
LC50 Oncorhynchus mykiss: 8.9 mg/L/96h.  
Longterm fish toxicity:  
60 d NOEC (Cirrhina mrigala): 0.077 mg/L.  
Long-term daphnia toxicity:  
16 d EC10 (Daphnia magna, growth): 0.46 mg/L.

### 12.2 Persistence and degradability

Further details: Information about Phenol:  
Abiotic degradation:  
Air (Indirect photodegradation by reaction with OH radicals.): half-life time (DT50) approx. 14d  
Water: Not susceptible to hydrolysis.  
Biodegradation:  
Activated sludge: 62 %/100h, readily biodegradable (OECD 301C).  
Activated sludge (anaerobic): 80.1 %/50d, rapidly biodegradable under anaerobic conditions (ECETOC method).  
Water: 86 - 96 % / 20d, easily bio-degradable (BOD-test APHA).  
COD: 2.3 g/g  
ThOD: 2.26 mg/L

### 12.3 Bioaccumulative potential

Information about Phenol:  
Significant bioaccumulation potential is not to be expected.  
Bioconcentration factor (BCF):  
17.5 (fish: Danio rerio)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 10 of 13

### 12.4 Mobility in soil

Information about Phenol:

Adsorption coefficient:

Koc: 82.8 L/kg, at 20 °C (calculated as log Pow).

The soil sorption coefficient indicates a low sorption of phenol onto soil organic matter.

Evaporation rate (Volatilisation) at 20°C: H= 0.022 Pa\* m<sup>3</sup>/mol.

The calculated Henry's Law constant indicates a low to moderate volatility from aqueous solution.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 07 01 01\* = aqueous washing liquids and mother liquors  
\* = Evidence for disposal must be provided.

Recommendation: Possible alternatives:  
070108\*: Other still bottoms and reaction residues.  
Incinerate according to applicable local, state and federal regulations.  
Discharge into the environment must be avoided.

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.  
Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:  
UN 2821

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:  
UN 2821, PHENOL SOLUTION

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 11 of 13

### 14.3 Transport hazard class(es)

ADR/RID: Class 6.1, Code: T1  
IMDG: Class 6.1, Subrisk -  
IATA-DGR: Class 6.1



### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:  
II



### 14.5 Environmental hazards

Marine pollutant: yes

### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 60, UN number UN 2821
Hazard label:	6.1
Limited quantities:	100 mL
EQ:	E4
Contaminated packaging - Instructions:	P001 IBC02
Special provisions for packing together:	MP15
Portable tanks - Instructions:	T7
Portable tanks - Special provisions:	TP2
Tank coding:	L4BH
Tunnel restriction code:	D/E

#### Sea transport (IMDG)

EmS:	F-A, S-A
Special provisions:	-
Limited quantities:	100 mL
Excepted quantities:	E4
Contaminated packaging - Instructions:	P001
Contaminated packaging - Provisions:	-
IBC - Instructions:	IBC02
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T7
Tank instructions - Provisions:	TP2
Stowage and handling:	Category A.
Properties and observations:	Yellowish solutions with perceptible odour. Toxic if swallowed, by skin contact or by inhalation. Rapidly absorbed through the skin.
Segregation group:	none

#### Air transport (IATA)

Hazard label:	Toxic
Excepted Quantity Code:	E4
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y641 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 654 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 662 - Max. Net Qty/Pkg. 60 L
Special provisions:	A3
Emergency Response Guide-Code (ERG):	6L

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 12 of 13

### SECTION 15: Regulatory information

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

##### National regulations - Great Britain

Hazchem-Code: 2X  
No data available

##### National regulations - EC member states

##### Labelling of packaging with <= 125mL content



Signal word:

**Danger**

Hazard statements:	H301	Toxic if swallowed.
	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H331	Toxic if inhaled.
	H341	Suspected of causing genetic defects.
	H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary statements:	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe vapours.
	P280	Wear protective gloves/protective clothing/eye protection/face 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.
	P330	Rinse mouth.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive] P5c and E2  
Use restriction according to REACH annex XVII, no.: 40  
The placing on the market and the use of the substance is not permitted in decorative articles, games and fun games.

#### 15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Phenol

### SECTION 16: Other information

#### Further information

Wording of the H-phrases under paragraph 2 and 3:

H301 = Toxic if swallowed.  
H311 = Toxic in contact with skin.  
H314 = Causes severe skin burns and 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.

Literature: REACH Registration Dossier Phenol. P&D REACH Consortium, 2010

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

# INEOS Phenol

## Phenol solution (5-20 % water content)

Revision date: 6/8/2018  
Version: 12

Language: en-GB,IE

Date of print: 9/10/2018  
Page: 13 of 13

Reason of change: Changes in section 1.4: emergency phone number  
Changes in section 4.1: Description of first aid measures  
Changes in section 5.1: extinguishing media

Date of first version: 30/1/2011

### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.