



## SAFETY DATA SHEET

## IBS Activator

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

## 1.1. Product identifier

Product name IBS Activator

Chemical name Phosphoric acid, 2-ethylhexyl ester

REACH registration notes No registration number assigned yet due to pre-registration still being valid.

CAS number 12645-31-7

EC number 235-741-0

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

Identified uses Offshore Industries Sealant. Polymer preparations and compounds

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

Supplier KCI Energy Services Ltd  
Units 6 & 7  
1 Kirkhill Place  
Kirkhill Industrial Estate  
Dyce  
Aberdeen  
AB21 0GU  
UK  
+44 (0) 1224 255480  
<http://www.kciltld.co.uk/>  
[info@kciltld.co.uk](mailto:info@kciltld.co.uk)

Contact person Roy MacKenzie

## 1.4. Emergency telephone number

Emergency telephone +44 (0) 1224 255480 (office hours only) +44 (0) 7876 656870 (office hours only)

National emergency telephone NHS: 111 (Members of the public)

number UK National Poisons Information Service: 0844 892 0111 (Health Professionals Only)

## SECTION 2: Hazards identification

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Health hazards                      Skin    Corr.    1B    -2.1. Classification of the substance or mixture  
H314

Environmental hazards            Not Classified                      Classification Pictogram

### 2.2. Label elements

EC number                            235-741-0



Signal word                            Danger

Hazard statements                    H314 Causes severe skin burns and eye damage.

Precautionary statements            P260 Do not breathe vapour/spray.  
P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor.  
P321 Specific treatment (see medical advice on this label).  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with national regulations.

### 2.3. Other hazards

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

##### 3.1. Substances

Product name                            IBS Activator

REACH registration notes            No registration number assigned yet due to pre-registration still being valid.

CAS number                              12645-31-7

EC number                                235-741-0

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

General information                    If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Inhalation                                Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.

Ingestion                                 Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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Skin contact	Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symptoms and effects, both acute and delayed	
General information	Treat symptomatically.
Inhalation	This product is corrosive.
Ingestion	This product is corrosive.
Skin contact	Corrosive to skin and eyes.
Eye contact	Corrosive to skin and eyes. Causes serious eye damage.

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

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Notes for the doctor                      Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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Suitable extinguishing media              Foam. Carbon dioxide (CO<sub>2</sub>).

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

Specific hazards                              Combustible liquid. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition.

Hazardous combustion products              Oxides of carbon. Oxides of phosphorus.

### 5.3. Advice for firefighters

Protective actions during firefighting              Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters              Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

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Personal precautions                              Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Keep unnecessary and unprotected personnel away from the spillage.

### 6.2. Environmental precautions

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Environmental precautions Do not discharge into drains or watercourses or onto the ground.

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

Methods for cleaning up Stop leak if safe to do so. Small Spillages: Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Wash thoroughly after dealing with a spillage. Large Spillages: Should be contained by bunding or dyking and prevent from reaching drains, ditches, or rivers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Wash thoroughly after dealing with a spillage. Dispose of waste via a licensed waste disposal contractor. Dispose of contents/container in accordance with local regulations.

### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Do not breathe gas, fume, vapours or spray. Container must be kept tightly closed when not in use. Only store in correctly labelled containers.

Advice on general occupational hygiene When using do not eat, drink or smoke. Eye wash facilities and emergency shower must be available when handling this product.

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

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Earth container and transfer equipment to eliminate sparks from static electricity. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

This substance does not have an established exposure limit value.

DNEL  
 Workers - Inhalation; Long term systemic effects: 36.73 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 10.42 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 10.87 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 6.25 mg/kg bw/day

PNEC  
 PNEC - Fresh water; 0.049 mg/l  
 PNEC - Marine water; 0.0015 mg/l

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PNEC - Intermittent release; 0.49 mg/l

PNEC - STP; 15 mg/l

PNEC - Sediment (Marinewater); 0.35 mg/kg sediment dw

### 8.2. Exposure controls

#### Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Provide eyewash station and safety shower.

Eye/face protection

The following protection should be worn: Chemical splash goggles and face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Wear protective gauntlets made of the following material: Polyvinyl chloride (PVC). Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear apron or protective clothing in case of contact. Wear rubber footwear.

Hygiene measures

Good personal hygiene procedures should be implemented. Wash hands thoroughly after handling.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Particulate filters should comply with European Standard EN143. Gas and combination filter cartridges should comply with European Standard EN14387.

Thermal hazards

No known thermal hazards.

Environmental exposure controls

Keep container tightly sealed when not in use. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

### SECTION 9: Physical and Chemical Properties

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

Appearance	Transparent. Liquid.
Colour	Amber.
Odour	Slight.
pH	pH (concentrated solution): 2.5
Initial boiling point and range	240°C @ 101.3 kPa
Flash point	44°C CC (Closed cup).

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Upper/lower flammability or explosive limits	The product is not flammable.
Vapour pressure	0.085 Pa @ 25°C
Relative density	1.01 @ 25°C
Solubility(ies)	5.95 mg/l water @ 20°C
Partition coefficient	log Pow: 2.18
Viscosity	0.000206 m <sup>2</sup> /s @ 20°C
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
Comments	Data obtained from the ECHA Substance Information database ( <a href="http://echa.europa.eu">http://echa.europa.eu</a> )

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

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Reactivity                      phosphates Esters.

##### 10.2. Chemical stability

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Stability                        Stable at normal ambient temperatures and when used as recommended.

##### 10.3. Possibility of hazardous reactions

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Possibility of hazardous reactions                      Will not polymerise.

##### 10.4. Conditions to avoid

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Conditions to avoid                      Avoid heat, flames and other sources of ignition.

##### 10.5. Incompatible materials

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Materials to avoid                      Strong oxidising agents.

##### 10.6. Hazardous decomposition products

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Hazardous decomposition products                      Oxides of carbon. Oxides of phosphorus. products

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

Other health effects                      Corrosive

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### Acute toxicity - oral

ATE oral (mg/kg) 2,500

### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) No information available.

### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) No information available.

### Skin corrosion/irritation

Animal data Corrosive.

### Serious eye damage/irritation

Serious eye damage/irritation Corrosive to skin.

### Respiratory sensitisation

Respiratory sensitisation No information available.

### Skin sensitisation

Skin sensitisation No information available.

### Germ cell mutagenicity

Genotoxicity - in vitro Negative.

### Carcinogenicity

Carcinogenicity No information available.

### Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 250 mg/kg bw/day, Oral, Rat P

Reproductive toxicity - Developmental toxicity: - NOAEL: 250 mg/kg bw/day, Oral, Rat development

### Specific target organ toxicity - single exposure

STOT - single exposure Conclusive data but not sufficient for classification.

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 250 mg/kg bw/day, Oral, Rat NOAEL 250 mg/kg bw/day, Oral, Rat

### Aspiration hazard

Aspiration hazard No information available.

## SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

### 12.1. Toxicity

Acute toxicity - fish LL<sub>50</sub>, 96 hour: >100 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic LC<sub>50</sub>, 48 hour: 117.4 mg/l, Freshwater invertebrates invertebrates

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hour: 15 mg/l, Skeletonema costatum (Greville)

Chronic toxicity - fish early life No information available.

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### stage

Chronic toxicity - aquatic No information available.

### invertebrates

#### 12.2. Persistence and degradability

Stability (hydrolysis) pH4 - Half-life 0: 120 hours @ 50°C  
 pH7 - Half-life 0: 120 hour @ 50°C  
 pH9 - Half-life 0: 120 hour @ 50°C

Biodegradation Readily biodegradable but failing the 10-day window.

#### 12.3. Bioaccumulative potential

Partition coefficient log Pow: 2.18

#### 12.4. Mobility in soil

Adsorption/desorption coefficient - log Koc: < 1.25 @ 30°C

Surface tension 44.4 mN/m @ 21°C

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

General information Dispose of waste via a licensed waste disposal contractor. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Do not discharge into drains or watercourses or onto the ground.

Disposal methods Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility. Waste packaging should be collected for reuse or recycling.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID) 2922

UN No. (IMDG) 2922

UN No. (ICAO) 2922

UN No. (ADN) 2922

#### 14.2. UN proper shipping name

Proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (ADR/RID)

Proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (IMDG)



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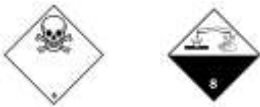
Proper shipping name (ICAO) CORROSIVE LIQUID, TOXIC, N.O.S.

Proper shipping name (ADN) CORROSIVE LIQUID, TOXIC, N.O.S.

### 14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID subsidiary risk	6.1
ADR/RID classification code	CT1
ADR/RID label	8
IMDG class	8
IMDG subsidiary risk	6.1
ICAO class/division	8
ICAO subsidiary risk	6.1
ADN class	8
ADN subsidiary risk	6.1

### Transport labels



### 14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

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EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	86
Tunnel restriction code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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### SECTION 15: Regulatory information

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

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EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
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#### 15.2. Chemical safety assessment

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No chemical safety assessment has been carried out.

### SECTION 16: Other information

General information	The data contained herein does not constitute the user's own assessment or workplace risk as required by other health and safety legislation (e.g. COSHH 1988). The data does not signify any warranty with regard to the product's properties.
Revision date	08/07/2015
Revision	1
Supersedes date	31/03/2014
SDS number	4620
Hazard statements in full	H314 Causes severe skin burns and eye damage.