

## SAFETY DATA SHEET EP21

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name EP21  
Product No. EPS050, EPS106

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

Identified uses Primer. Paint.

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

Manufacturer TETROSYL LIMITED  
BEVIS GREEN WORKS  
WALMERSLEY  
BURY  
BL9 6RE  
0161 764 5981  
0161 797 5899  
info@tetrosyl.com

#### 1.4. Emergency telephone number

0161 764 5981

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 2 - H225

Hazards

Human health

Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Repr. 2 - H361d; STOT SE 3 - H336; STOT RE 2 - H373

Environment

Not classified.

Classification (1999/45/EEC) Xn; R48/20. Repr. Cat. 3; R63. Xi; R36/38. F; R11. R67.

The Full Text for all R-Phrases and Hazard Statements are Displaved in Section 16.

#### 2.2. Label elements

Contains TOLUENE

Detergent Labelling:

15 - < 30% Aromatic hydrocarbons.

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H225  
H315

Highly flammable liquid and vapour.  
Causes skin irritation.

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H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

## Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P260	Do not breathe vapour/spray.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

## Supplementary Precautionary Statements

P202	Do not handle until all safety precautions have been read and understood.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour/spray.
P264	Wash contaminated skin thoroughly after handling.
P321	Specific treatment (see medical advice on this label).
P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P332+313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.

**2.3. Other hazards**

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**3.2. Mixtures**

1-METHOXY-2-PROPANOL		1-5%
CAS-No.: 107-98-2	EC No.: 203-539-1	Registration Number: 01-2119457435-35-XXXX
Classification (EC 1272/2008) Flam. Liq. 3 - H226 STOT SE 3 - H336	Classification (67/548/EEC) R10,R67.	
ACETONE		5-10%
CAS-No.: 67-64-1	EC No.: 200-662-2	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R66 R67	
BUTYL ACETATE -norm		10-30%
CAS-No.: 123-86-4	EC No.: 204-658-1	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336	Classification (67/548/EEC) R10 R66 R67	
CRISTOBALITE/QUARTZ MIXTURE		<0.5
CAS-No.: 14808-60-7	EC No.: 238-878-4	
Classification (EC 1272/2008) STOT RE 2 - H373	Classification (67/548/EEC) Xn;R48/20.	
ETHYLBENZENE		<1%
CAS-No.: 100-41-4	EC No.: 202-849-4	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 4 - H332	Classification (67/548/EEC) F;R11 Xn;R20	

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IPA		1-5%
CAS-No.: 67-63-0	EC No.: 200-661-7	Registration Number: 01-2119457558-25-XXXX
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R67	
ISO-BUTANOL		1-5%
CAS-No.: 78-83-1	EC No.: 201-148-0	Registration Number: 01-2119484609-23-XXXX
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT SE 3 - H336	Classification (67/548/EEC) R10 Xi;R37/38,R41 R67	
PETROLEUM DISTILLATES (AROMATIC HYDROCARBON SOLVENT 160-180)		1-5%
CAS-No.: 64742-95-6	EC No.: 265-199-0	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xn;R65. Xi;R37. N;R51/53. R10.	
TOLUENE		10-30%
CAS-No.: 108-88-3	EC No.: 203-625-9	Registration Number: 01-2119471310-51-XXXX
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	Classification (67/548/EEC) F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67	
XYLENE		5-10%
CAS-No.: 1330-20-7	EC No.: 215-535-7	

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Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
Acute Tox. 4 - H312	Xn;R20/21
Acute Tox. 4 - H332	Xi;R38
Skin Irrit. 2 - H315	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

Remove affected person from source of contamination. NOTE! Effects may be delayed. Keep affected person under observation. Get medical attention. CAUTION! First aid personnel must be aware of own risk during rescue! Move the exposed person to fresh air at once. NOTE! Keep affected person away from heat, sparks and flames! Perform artificial respiration if breathing has stopped. Place unconscious person on the side in the recovery position and ensure breathing can take place.

#### Inhalation

Remove victim immediately from source of exposure. Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions. Place unconscious person on the side in the recovery position and ensure breathing can take place. Perform artificial respiration if breathing has stopped.

#### Ingestion

Get medical attention immediately! Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions. Do not give victim anything to drink if he is unconscious. NOTE! Keep affected person away from heat, sparks and flames! When risk of unconsciousness, place and transport the victim in secured side position.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Rinse with water. Use suitable lotion to moisturise skin. Get medical attention promptly if symptoms occur after washing.

#### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye. Get medical attention if any discomfort continues.

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

#### General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. NOTE! Effects may be delayed. Keep affected person under observation.

#### Inhalation

In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death. Vapours may cause headache, fatigue, dizziness and nausea. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

#### Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. May cause chemical burns in mouth and throat. Central nervous system depression. Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation.

#### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact

Irritation, burning, lachrymation, blurred vision after liquid splash.

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

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No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media**

Extinguishing media

Use: Foam, carbon dioxide or dry powder. Water. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

HIGHLY FLAMMABLE! Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

Specific hazards

Vapours may form explosive air mixtures even at room temperature. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

**5.3. Advice for firefighters**

Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep up-wind to avoid fumes. Be aware of risk of fire re-starting, and risk of explosion. Cool containers exposed to flames with water until well after the fire is out. Use water SPRAY only to cool containers! Do not put water on leaked material.

Protective equipment for fire-fighters

Leave danger zone immediately.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet. In case of inadequate ventilation, use respiratory protection. Take precautionary measures against static discharges. Do not smoke, use open fire or other sources of ignition. Do not breathe vapour. Avoid contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.

**6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground. Prevent entry into drains. Avoid discharge to the aquatic environment.

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

For waste disposal, see section 13. Stop leak if possible without risk. Collect with absorbent, non-combustible material into suitable containers. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.

Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Cover large spillages with alcohol-resistant foam.

**6.4. Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

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Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Observe good chemical hygiene practices. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Mechanical ventilation or local exhaust ventilation may be required.

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

Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Keep in original container. Avoid contact with oxidising agents. Do not store near heat sources or expose to high temperatures. Store separated from: Oxidising material.

Storage Class

Flammable liquid storage.

**7.3. 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**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ACETONE	WEL	500 ppm	1210 mg/m <sup>3</sup>	1500 ppm	3620 mg/m <sup>3</sup>	
BUTYL ACETATE -norm	WEL	150 ppm	724 mg/m <sup>3</sup>	200 ppm	966 mg/m <sup>3</sup>	
CRISTOBALITE/QUARTZ MIXTURE	WEL		0,1 mg/m <sup>3</sup>			
ETHYLBENZENE	WEL	100 ppm	441 mg/m <sup>3</sup>	125 ppm	552 mg/m <sup>3</sup>	Sk
IPA	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	
ISO-BUTANOL	WEL	50 ppm	154 mg/m <sup>3</sup>	75 ppm	231 mg/m <sup>3</sup>	
TOLUENE	WEL	50 ppm	191 mg/m <sup>3</sup>	100 ppm	384 mg/m <sup>3</sup>	Sk
XYLENE	WEL	50 ppm	220 mg/m <sup>3</sup>	100 ppm	441 mg/m <sup>3</sup>	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

**8.2. Exposure controls**

Protective equipment



Process conditions

Provide eyewash station.

Engineering measures

Provide explosion proof ventilation for high concentrations. Observe occupational exposure limits and minimize the risk of inhalation of vapours. All handling to take place in well-ventilated area.

**EP21****Respiratory equipment**

If ventilation is insufficient, suitable respiratory protection must be provided. Check that mask fits tight and change filter regularly. Use respiratory equipment with gas filter, type AX.

**Hand protection**

For prolonged or repeated skin contact use suitable protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

**Eye protection**

Wear approved, tight fitting safety glasses where splashing is probable.

**Other Protection**

Wear suitable protective clothing as protection against splashing or contamination.

**Hygiene measures**

Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

Isolate contaminated clothing and wash before reuse.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**


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

Appearance	Paste
Colour	Grey.
Odour	Solvent.
Solubility	Insoluble in water
Initial boiling point and boiling range (°C)	56
Melting point (°C)	Scientifically unjustified.
Relative density	1.1 20
Vapour density (air=1)	Scientifically unjustified.
Vapour pressure	Scientifically unjustified.
Evaporation rate	Scientifically unjustified.
pH-Value, Conc. Solution	Scientifically unjustified.
Viscosity	4000 cP 20
Decomposition temperature (°C)	Scientifically unjustified.
Odour Threshold, Lower	Scientifically unjustified.
Odour Threshold, Upper	Scientifically unjustified.
Flash point (°C)	-18
Auto Ignition Temperature (°C)	Scientifically unjustified.
Flammability Limit - Lower(%)	Scientifically unjustified.
Flammability Limit - Upper(%)	Scientifically unjustified.
Partition Coefficient (N-Octanol/Water)	Scientifically unjustified.
Oxidising properties	Not determined.

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**9.2. Other information**

None.

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not relevant

**10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

**10.5. Incompatible materials**

Materials To Avoid

No specific, or groups of materials are likely to react to produce a hazardous situation.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50

5000 (Toluene) mg/kg (oral rat)

Other Health Effects

Carcinogen Category 3.

General information

Known or suspected carcinogen for humans. Possible reproductive impact.

Inhalation

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Ingestion

May cause internal injury. May cause nausea, headache, dizziness and intoxication. Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

Skin contact

Irritating to skin.

Eye contact

Irritating to eyes.

Health Warnings

This chemical may cause skin/eye irritation and burns (corrosive). May cause severe internal injury. May cause unconsciousness, blindness and possibly death.

Route of entry

Inhalation. Ingestion. Skin and/or eye contact. Skin absorption.

**EP21****Medical Symptoms**

Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

**Medical Considerations**

Risk of chemical pneumonia after aspiration.

**Specific effects**

Contains a substance/a group of substances which may cause harm to breastfed babies. Contains a substance/a group of substances which may cause cancer by inhalation. Contains a substance/a group of substances with possible risk of harm to the unborn child and with possible risk of impaired fertility.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

Not regarded as dangerous for the environment.

**12.1. Toxicity****Acute Fish Toxicity**

Not considered toxic to fish.

LC 50, 96 Hrs, Fish mg/l 13.5

**Xylene**

EC 50, 48 Hrs, Daphnia, mg/l 3.82

**Xylene****12.2. Persistence and degradability****Degradability**

There are no data on the degradability of this product.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

No data available on bioaccumulation.

**Partition coefficient**

Scientifically unjustified.

**12.4. Mobility in soil****Mobility:**

The product is insoluble in water.

**Adsorption/Desorption Coefficient**

Not available.

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

Not Classified as PBT/vPvB by current EU criteria.

**12.6. Other adverse effects**

Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS****General information**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when empty.

**13.1. Waste treatment methods**

Confirm disposal procedures with environmental engineer and local regulations. Make sure containers are empty before discarding (explosion risk). Empty containers must not be burned because of explosion hazard. Recover and reclaim or recycle, if practical.

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**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

UN No. (ADR/RID/ADN)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

**14.2. UN proper shipping name**

Proper Shipping Name	PAINT RELATED MATERIAL
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**14.3. Transport hazard class(es)**

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	

**14.4. Packing group**

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

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant  
No.

**14.6. Special precautions for user**

EMS	F-E, S-E
Emergency Action Code	3YE
Hazard No. (ADR)	33

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code****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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

## Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 04/09/2013  
Revision 6  
Supersedes date 29/03/2012 v5  
Safety Data Sheet Status Approved.

## Risk Phrases In Full

R10 Flammable  
R20/21 Harmful by inhalation and in contact with skin.  
R20 Harmful by inhalation.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R65 Harmful: may cause lung damage if swallowed.  
R11 Highly flammable  
R36/38 Irritating to eyes and skin.  
R36 Irritating to eyes.  
R37/38 Irritating to respiratory system and skin.  
R37 Irritating to respiratory system.  
R38 Irritating to skin.  
R63 Possible risk of harm to the unborn child.  
R66 Repeated exposure may cause skin dryness or cracking.  
R41 Risk of serious damage to eyes.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R67 Vapours may cause drowsiness and dizziness.

## Hazard Statements In Full

H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H312 Harmful in contact with skin.  
H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.  
H336 May cause drowsiness or dizziness.  
H335 May cause respiratory irritation.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
H361d Suspected of damaging the unborn child.