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

1.1. Product identifier

Fuel System Cleaner

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

Use of the substance/mixture

Cleaning agent for Fuel Systems

1.3. Details of the supplier of the safety data sheet

Company name:	Bluechem Australia	
Street:	Unit 2, 102-110 NORTH VIEW DRIVE	
Place:	3020 SUNSHINE, VICTORIA, AUSTRALIA	
Telephone:	(03) 9311 4456	Telefax: (03) 9311 7712
e-mail:	admin@bluechemaustralia.com.au	
Contact person:	Neil Cochrane	
Internet:	www.bluechemaustralia.com.au	

1.4. Emergency telephone number:

Emergency 24 HOUR: Neil Cochrane (03) 9311 4456 or 0498 880 115

Further Information

Article Number: 33028

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS CHEMICAL ACCORDING TO SAFE WORK AUSTRALIA AND WHS CRITERIA.
CLASSIFIED AS DANGEROUS GOODS ACCORDING TO THE ADG CODE.
POISON SCHEDULE: 5

Classification according to WHS

Hazard categories:
Flammable liquid: Flam. Liq. 2
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 2
Aspiration hazard: Asp. Tox. 1
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Highly flammable liquid and vapour.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labeling according to WHS

Component(s) to be indicated on the label

xylene 30 -< 60 %
propan-2-ol; isopropyl alcohol; isopropanol 10 -< 30 %
acetone; propan-2-one; propanone 10 -< 30 %
Aliphatic Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates 10 -< 30 %
phenoles, ethoxylised < 10 %

Signal word: Danger

Pictograms:

flame - exclamation mark - health hazard

Hazard statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P260 Do not breathe Gas/vapour/aerosole.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
P312 Call a POISON CENTER/doctor if you feel unwell.
P331 Do NOT induce vomiting.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to industrial incineration plant.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Surface tension compounds
Detergents, Dispersants
Synthetic agent combinations
Anti wear agents not classified
Mixture of the following substances

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to WHS criteria			
1330-20-7	xylene			30 -< 60 %
	215-535-7		01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H312 H332 H315 H319 H335 H373 H304			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			10 -< 30 %
	200-661-7		01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2A, STOT SE 3; H225 H319 H336			
67-64-1	acetone; propan-2-one; propanone			10 -< 30 %
	200-662-2		01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2A, STOT SE 3; H225 H319 H336 AUH066			
64742-48-9	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates			15 - < 20 %
	919-857-5		01-2119463258-33	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 AUH066			
64742-47-8	Hydrocarbons, C9-C11, Isoalkanes, Cycloalcanes, < 2% Aromates			5 - < 10 %
	920-134-1		01-2119480153-44	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411 AUH066			
37205-87-1	phenoles, ethoxylised			< 10 %
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 2; H302 H318 H411			
N/A	Poly[oxy(1,2-butanediyl)], .alpha.-(3-aminopropyl)-.gamma.-hydroxy-, C11-14-isoalkyl ethers, C13-rich (Polyetheramines)			< 5 %
	Aquatic Chronic 2; H411			

Full text of H and AUH phrases: see section 16

Further Information

According to note P to labelling (Australian Hazardous Substances Information System (HSIS)), "Solvent naphta (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Move victim to fresh air. Put victim at rest and keep warm.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.
In case of difficulties of breathing consult physician.

If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .
After contact with skin, wash immediately with plenty of water and soap.
Rub greasy ointment into the skin.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Consult physician.

After ingestion

Let water be drunken in little sips (dilution effect). Consult physician.

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

Frequently or prolonged contact with skin may cause dermal irritation.
Irritation of eyes: Irritant effect possible.
After ingestion: Harmful: may cause lung damage if swallowed.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

Warning about danger of aspiration.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder.
Sand.
alcohol resistant foam.
Carbon dioxide (CO_2).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Formation of decomposition products possible.
In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

HAZCHEM: .3YE

Additional information

Cool endangered container in case of fire.
Contaminated fire-fighting water must be collected separately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of fire: Wear self-contained breathing apparatus.
Keep away from sources of ignition. - No smoking.

6.2. Environmental precautions

Beat down gas/vapours/mist with water spray.
Do not empty into drains or the aquatic environment.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Prevent spreading of spillages (e.g. by oil barrier).
Wipe up with absorbent material (eg. cloth, fleece).

6.4. Reference to other sections

Information for safe handling look up chapter 7.
Information for personal protective equipment look up chapter 8.

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Closed devices. Vapours / aerosols must be extracted by suction immediately at point of origin.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions

Packaging materials: metal.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits (OEL) - Australia

CAS No	Substance	ppm	mg/m3	Category
	Xylene (o-,m-,p)	80	350	TWA
	Xylene (o-,m-,p)	150	655	STEL
67-61-1	Acetone	500	1185	TWA
67-61-1	Acetone	1000	2375	STEL
67-63-0	Isopropyl alcohol	400	983	TWA
67-63-0	Isopropyl alcohol	500	1230	STEL

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

8.2. Exposure controls

Protective and hygiene measures

When using do not eat, drink or smoke.
Wash hands before breaks and after work.

Eye/face protection

Wear tightly sealed safety glasses against possible splashes into the eyes. (DIN EN 166)

Hand protection

Tested protective gloves are to be worn: Butyl rubber. (DIN EN 374)

Skin protection

Wear suitable solvent-proof protective clothing according to EN 465.

Respiratory protection

In case of accumulation of fumes/aerosols, provide adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	red
Odour:	aromatic

		Test method
Changes in the physical state		
Initial boiling point and boiling range:	110 - 116 °C	
Flash point:	-6.5 °C	
Lower explosion limits:	0,6 vol. %	
Upper explosion limits:	12 vol. %	
Ignition temperature:	> 200 °C	
Vapour pressure: (at 20 °C)	20 hPa	
Density (at 20 °C):	0.78-0.82 g/cm³	
Water solubility: (at 20 °C)	insoluble	

Solubility in other solvents

Organic solvents

9.2. Other information

No data

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No decomposition when used as intended.

10.3. Possibility of hazardous reactions

No dangerous reactions are known.

10.4. Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

10.5. Incompatible materials

Oxidizing agents. acid, concentrated. Alkalis (alkalis), concentrated.

10.6. Hazardous decomposition products

Carbon monoxide (CO).
Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (inhalative aerosol) 4,795 mg/l

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose		Species	Source
1330-20-7	xylene				
	oral	LD50	4300 mg/kg	Rat	
	dermal	LD50	3200 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	21,7 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50	5280 mg/kg	Rat	
	dermal	LD50	12800 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	47,5 mg/l	Rat	
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50	5800 mg/kg	Rat	RTECS
	dermal	LD50	20000 mg/kg	Rabbit	IUCLID
	inhalative (4 h) vapour	LC50	76 mg/l	Rat	
64742-48-9	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates				
	oral	LD50	>5000 mg/kg	Rat	
	dermal	LD50	>5000 mg/kg	Rabbit	
	inhalative (4 h) aerosol	LC50	>5 mg/l	Rat	
64742-47-8	Hydrocarbons, C9-C11, Isoalkanes, Cycloalcanes, < 2% Aromates				
	oral	LD50	>5000 mg/kg	Rat	
	dermal	LD50	>5000 mg/kg	Rabbit	
	inhalative (4 h) aerosol	LC50	>5 mg/l	Rat	
37205-87-1	phenoles, ethoxylised				
	oral	LD50	2000 mg/kg	Rat	
N/A	Poly[oxy(1,2-butanediyl)], .alpha.-(3-aminopropyl)-.gamma.-hydroxy-, C11-14-isoalkyl ethers, C13-rich (Polyetheramines)				
	oral	LD50	>5000 mg/kg	Rat	
	dermal	LD50	>2000 mg/kg	Rabbit	

Irritation and corrosivity

After skin contact: Frequently or prolonged contact with skin may cause dermal irritation.
Irritation of eyes: Irritant effect possible.
After ingestion:
Harmful: may cause lung damage if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose		[h] | [d]	Species	Source
1330-20-7	xylene					
	Acute fish toxicity	LC50	26,7 mg/l	96 h	Pimephales promelas	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50	9640 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	1000 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50	13299 mg/l	48 h	Daphnia magna	
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50	5540 mg/l	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	6100 mg/l	48 h	Daphnia magna	
64742-48-9	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates					
	Acute fish toxicity	LC50	>1000 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50	>1000 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	1000 mg/l	48 h	Daphnia magna	
64742-47-8	Hydrocarbons, C9-C11, Isoalkanes, Cycloalcanes, < 2% Aromates					
	Acute fish toxicity	LC50	>1000 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50	>1000 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	1000 mg/l	48 h	Daphnia magna	
37205-87-1	phenoles, ethoxylised					
	Acute fish toxicity	LC50	1-10 mg/l	96 h	Brachydanio rerio	
	Acute algae toxicity	ErC50	1-10 mg/l	72 h	Scenedesmus subspicatus	
N/A	Poly[oxy(1,2-butanediyl)], .alpha.-(3-aminopropyl)-.gamma.-hydroxy-, C11-14-isoalkyl ethers, C13-rich (Polyetheramines)					
	Acute fish toxicity	LC50	1-10 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50	10-100 mg/l	72 h	Algae	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Swims on the water.
Low potential of bio-accumulation.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone; propan-2-one; propanone	-0,24

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not dispose with household waste.
Do not empty into drains or the aquatic environment.
Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.
Arrange about the exact waste code with the local waste disposal expert.

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.
Do not pierce, cut up or weld unclean container. (Explosion hazard.)

SECTION 14: Transport information

Land transport (ADG)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Special Provisions:	274
Limited quantity:	1 L

Other applicable information (land transport)

HAZCHEM: .3YE

Marine transport (IMDG)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Marine pollutant:	-
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Special Provisions:	A3	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

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

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
phenoles, ethoxylised

Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates
Entry 46a: phenoles, ethoxylised

Additional information

Contains:
< 5 % phenoles, ethoxylised
15 - 30 % hydrocarbons, aliphatic.
> 30 % hydrocarbons, aromatic.

National regulatory information

Water contaminating class (D): 2 - water contaminating

Additional information

POISON SCHEDULE: 5
All components of this mixture are listed on or exempted from AICS.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADG = Australian Code for the Transport of Dangerous Goods by Road & Rail
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
HAZCHEM = HAZardous CHEMicals

WHS = Work Health and Safety
NOHSC = National Occupational Health and Safety Commission (Australia)

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and AUH phrases (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
AUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.
The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)