



## Safety Data Sheet

**bluechem**   
**GROUP**

According to the Model WHS Regulations and the ADG code

### Octane Premium

Revision date: 29.07.2022

Product code: 1968

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

### 1.1. Product identifier

Octane Premium

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

#### Use of the substance/mixture

Increase the ROZ-octane number.

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

Company name:	Bluechem Australia	
Street:	UNIT 4, 63 BRUNEL ROAD	
Place:	SEAFORD VICTORIA 3198 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: 33280

## 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: 6

#### Classification according to WHS

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

### 2.2. Label elements

#### Labeling according to WHS

#### Component(s) to be indicated on the label

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xylene 85 -< 90 %  
 tricarbonyl(methylcyclopentadienyl)manganese (MMT) 5 -< 10 %  
 Hydrocarbons, C10, aromatics, >1% naphthalene 5 -< 10 %

**Signal word:** Danger

**Pictograms:**



flame - exclamation mark - health hazard - environment

### Hazard statements

H226 Flammable liquid and vapour.  
 H302+H332 Harmful if swallowed or if inhaled.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H351 Suspected of causing cancer.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

### 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.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 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.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves.  
 P281 Use personal protective equipment as required.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P331 Do NOT induce vomiting.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 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.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362 Take off contaminated clothing.  
 P370+P378 In case of fire: Use water to extinguish.

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P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of this material and its container to hazardous or special waste collection point.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Ignition improver

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to WHS criteria			
1330-20-7	xylene			85 - < 90 %
	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			
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese (MMT)			5 - < 10 %
	235-166-5		01-2119495971-23	
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 3, Skin Irrit. 2, STOT RE 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H330 H310 H301 H315 H372 H400 H410			
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene			5 - < 10 %
	919-284-0		01-2119463588-24	
	Carc. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H351 H336 H304 H411			

Full text of H and AUH phrases: see section 16

## 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.

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Irritation of eyes: Irritant effect possible.  
After ingestion: Harmful: may cause lung damage if swallowed.  
Harmful by 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<sub>2</sub>).

**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**

In case of fire: Wear self-contained breathing apparatus.  
HAZCHEM: 3Y

**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 allow to enter into surface water or drains.  
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.

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### 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/m <sup>3</sup>	Category
1330-20-7	Xylene (o-,m-,p)	80	350	TWA
1330-20-7	Xylene (o-,m-,p)	150	655	STEL
12108-13-3	MMT	-	0,2	TWA
12108-13-3	MMT	-	-	STEL

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
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:	reddish brown
Odour:	characteristic

Test method

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**Changes in the physical state**

Flash point:

24 °C

Density (at 15 °C):

0,87 - 0,89 g/cm<sup>3</sup>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 (CO<sub>2</sub>).**SECTION 11: Toxicological information****11.1. Information on toxicological effects****ATEmix tested**

	Dose	Species	Source
LD50, oral	1000 mg/kg	Rat	
LD50, dermal	2958 mg/kg	Rabbit	
LC50, inhalative (vapour) (4 h)	14,79 mg/l	Rat	
LC50, inhalative (aerosol) (4 h)	1,17 mg/l	Rat	
LC50, inhalative (gas) (4 h)	7142 ppm	Rat	

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### 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		
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese (MMT)			
	oral	LD50 58 mg/kg	Rat	
	dermal	LD50 196,7 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50 0,22 mg/l	Rat	
	inhalative (4 h) aerosol	LC50 0,076 mg/l	Rat	

### 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	
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese (MMT)				
	Acute fish toxicity	LC50 0,21 mg/l	96 h	Cyprinus carpio (Carp)	
	Acute algae toxicity	ErC50 1,7 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50 0,83 mg/l	48 h	Daphnia magna	
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene				
	Acute fish toxicity	LC50 2-5 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50 1-3 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50 3-10 mg/l	48 h	Daphnia magna	

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

Low potential of bio-accumulation.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
12108-13-3	tricarbonyl(methylcyclopentadienyl)manganese (MMT)	3,4

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

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### 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 allow to enter into surface water or drains.

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)

<b>14.1. UN number:</b>	UN 1307
<b>14.2. UN proper shipping name:</b>	XYLENES
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3



Limited quantity: 5 L

#### Other applicable information (land transport)

HAZCHEM: 3Y

### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 1307
<b>14.2. UN proper shipping name:</b>	XYLENES
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3



Marine pollutant: P  
 Special Provisions: 223  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-D

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

<b>14.1. UN number:</b>	UN 1307
<b>14.2. UN proper shipping name:</b>	XYLENES
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III



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Hazard label:

3



Special Provisions:

A3

Limited quantity Passenger:

10 L

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:

355

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

366

IATA-max. quantity - Cargo:

220 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance:

tricarbonyl(methylcyclopentadienyl)manganese (MMT)  
Hydrocarbons, C10, aromatics, >1% naphthalene

### 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

##### Additional information

Contains:

> 30 % hydrocarbons, aromatic.

#### National regulatory information

Water contaminating class (D):

2 - water contaminating

##### Additional information

POISON SCHEDULE: 6

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

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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)**

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**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 singularly 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.)*