



**Pollution Incident Response Management Plan
(PIRMP)**

Kemps Creek Facility

November 2018

Document revision control and authorisation

Date	Revision	Modification	Prepared	Reviewed	Approved
20/01/2017	01	Original issue	Shaun Daniels	Frank Horky	James Perry
17/11/2017	02	Minor revisions	David Platts	Frank Horky	James Perry
19/11/2018	03	Minor revisions	David Platts	Frank Horky	James Perry
	04				
	05				

James Perry
 VAC Group NSW State Manager

19 November 2018
 Date

Frank Horky
 VAC Group HSEQ Manager (Australia and New Zealand)

19 November 2018
 Date

David Platts
 VAC Group HSEQ and Training Supervisor

19 November 2018
 Date

1. Background

This plan has been developed to meet the requirements of the NSW Protection of the Environment Act 1997, which includes requirements for the effective management of potential pollution risk and respective requirements for reporting, management and communication of pollution incidents.

The Act also requires the preparation and a pollution incident response strategy which is to be documented, maintained and routinely tested.

2. Scope and location

This Pollution Incident Response Management Plan (PIRMP) has been developed by VAC Group Operations Pty Ltd. The plan applies specifically to company depot located at 1341 Elizabeth Drive, Kemps Creek, NSW where material product (re-purposed soil), flocculent, AdBlue and moderate quantities of motor oil is stored.

3. Objectives

The objectives of this plan are to:

- Ensure continuing compliance with legislative obligations;
- Provide clear documentation of pollution risks,
- To provide required actions and notifications in the event of a pollution incident;
- To detail related testing and training requirements; and
- Communication of incidents to authorities and community representatives.

4. Information included in this PIRMP

4.1 Description and likelihood of hazards

VAC Group is a vacuum excavation and underground services locating company.

The company does not store licensable quantities of dangerous goods at this location, only low level risk substances in negligible quantities.

The key activities undertaken at this location include:

- Office and administration activities;
- Parking of trucks and other vehicles;
- Dewatering of uncontaminated earthen site material; and
- Routine maintenance of vehicles.

Substances kept onsite are limited to:

- Engine oil used for vehicle servicing; and
- AdBlue (low environmental risk post-combustion treatment).

The key risk (however unlikely) environmental harm incident would include a spill of any of the following entering the tributary creek located south of the main operational area of the Kemps Creek depot:

- AdBlue storage; and
- Motor oil storage.

The potential for a spill or leak of any of the above is more limited to:

- Delivery related incident;
- Malfunction of the AdBlue pump resulting in a small uncontrolled local release;
- Accident release of vacuum excavation material; and
- Malicious damage to stored substances.

4.2 Preventive actions to be taken

VAC Group has taken a proactive approach to eliminate so far as is reasonably practicable or otherwise minimise the risk of pollution incidents which includes:

- Limiting quantities of substances stored at this location;
- Ensuring substances are positioned a safe distance from potential risk areas;
- Bunding and containment measures for stored substances and process equipment;
- Regular inspection of storage of bunding and containment provisions;
- Ensuring regular inspection of spill kits at AdBlue filling points;
- Procedures for securing trucks that return to the depot with full or partial loads;
- Procedures for prompt reporting of faults relating to environmental control measures;
- CCTV monitoring 24 hours/day and security access to minimise malicious damage; and
- Training of staff to ensure adequate understanding of the contents of this PIRMP and other supporting documentation including:
 - VAC Group HSE Management Plan; and
 - VAC Group HSEQ Instruction No. 25 – Environmental protection and spill management.

4.3 Inventory of potential pollutants

Refer appendices for typical quantities of the following kept on site:

- 1,000L Motor oil
- 1,000L AdBlue
- ~ 3,000L vacuum excavation material (water)

4.4 Notification protocol

In accordance with the POEA Act, the incident reporting procedure forms part of the duty to notify a pollution incident occurring in the course of an activity that causes or threatens material harm to the environment. The worker undertaking an activity that causes an incident is required to immediately notify their supervisor and follow directions contained within this PIRMP plan.

This reporting requirement is consistent with HSEQ Instruction 25 - Environmental protection and spill management.

If a pollution incident occurs which causes or threatens material harm to the environment, the incident will be immediately reported to each relevant authority as listed in Section 4.6.

Although highly unlikely, any pollution incident that presents an immediate threat to human health and property, Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service will be contacted for emergency assistance as required.

If the incident does not pose an immediate threat to human health and property and does not require an initial emergency response, such incidents will be reported to relevant authorities in accordance with the NSW Protection of Environment Act 1997.

4.5 Safety equipment

Personal Protective Equipment (PPE) is available on site to all staff working in or around areas where pollutant risks have been identified.

This includes but is not limited to:

- Protective glasses/goggles
- Protective masks
- High visibility clothes
- Gum boots
- Protective gloves
- Spill kits

Other safety related onsite equipment/information includes:

- Fire extinguishers
- First aid kits
- SDS (Refer appendix 3)
- Access and chemical information

4.6 Emergency and community contact details

The following lists required emergency and community contacts in the event a Pollution incident.

Regulatory Authority	Contact Number
EPA NSW	131 555
SafeWork NSW	131 050
Fire and Rescue	000
Blacktown City Council	(02) 9839 6000

4.7 Minimising harm to persons on the premises

Given the low level risks associated with substances and quantities of substances kept at the Kemps Creek site, emergency response relating to potential pollution incidents will typically involve localised spill containment and recovery, with minimal impact to human health or safety.

If required, standard emergency response procedure will be implemented and includes:

- Alarm raised by relevant staff or Emergency Warden (David Platts / Jordan Avramides);
- Calm evacuation of premises to the evacuation point;
- Follow Emergency Warden’s instructions;
- Roll call and confirmation of staff attendance;
- Relevant emergency services authorities contacted by Emergency Warden.

4.8 Actions to be taken immediately after incident

Actions to be taken following a pollution incident will be influenced by the type and size of incident. Vac-U-Digga units are very effective in vacuuming mud, slurries and other liquids, in addition to the hydro excavation services they typically provide. They also have a unique capability to be effectively deployed in response to large spills or similar incidents which have potential to cause a risk to health and safety and/ or harm to the environment.

Onsite spill recovery capability

For larger spills, Vac-U-Digga units are capable of vacuuming and holding liquid material indefinitely until treatment, handling or licenced disposal options are determined.

Chemical Spill

Small spills are to be cleaned using designated spill kits and ensuring appropriate PPE is worn.

For larger spills Vac-U-Digga units may be deployed to:

- Recover pollutant/s;
- Clean the area; and
- Undertake disposal of pollutant at appropriately licenced disposal facility.

Fire

Where small fires can be contained, on-site dry chemical powder fire extinguishers will be used. Large fires will be immediately reported to emergency services in accordance with section 4.6 of this document. Orderly emergency evacuation be undertaken accordingly.

The risk of fire at this location is very low

4.9 Maps

Attached in Appendix 1 is a site map of 1341 Elizabeth Drive, Kemps Creek, NSW, 2178. This is the primary premises of VAC Group in NSW. The map indicates the location of the engine oil, cleaning products and AdBlue on site and the Emergency Evacuation location.

5. Availability of PIRMP and any associated plans/documentation

This PIRMP has been documented to comply with legislative requirements under the Protection of the Environment Operations Act 1997 (POEO Act) and the Protection of the Environment Operations (General) Regulation 2009.

This plan has been made publicly available as required within 14 days following the preparation. It can be viewed on the company website at www.vacgroup.com.au. Additionally, a hard copy will be located onsite at all times.

Additionally, the PIRMP will be implemented in conjunction with VAC Group’s HSE Management system including HSEQ Instruction 25 - Environmental protection and spill management.

6. Training of staff

Training of staff in the understanding and implementation of this PIRMP will be provided by Operational staff with support from the HSEQ and Training Supervisor.

Training includes but is not limited to:

- Ensuring detailed familiarity with this plan, the HSE Management Plan and HSEQ Instruction No. 25 Environmental protection and spill management;
- Ensure learnings from the test evacuation and other emergency management exercises are communicated;
- Ensure knowledge of legislative and statutory requirements;
- Included as part of company inductions of all NSW personnel; and
- Use of Toolbox meetings to identify basic training and possible WHS issues

Training records will be maintained and kept with a hard copy of this PIRMP (see appendix. 2). Training will occur on commencement of employment and then annually unless there is a modification to this PIRMP within the annual period. Then training will occur relative to the modification.

7. Testing of PIRMP

This PIRMP, it will be tested using a mock pollution incident scenario to ensure personnel are aware of required response actions and responsibilities for pollution incidents.

The Emergency Warden is responsible for documenting any issues that emerge during the mock pollution incident and making recommendations regarding any changes that subsequently need to be made to PIRMP.

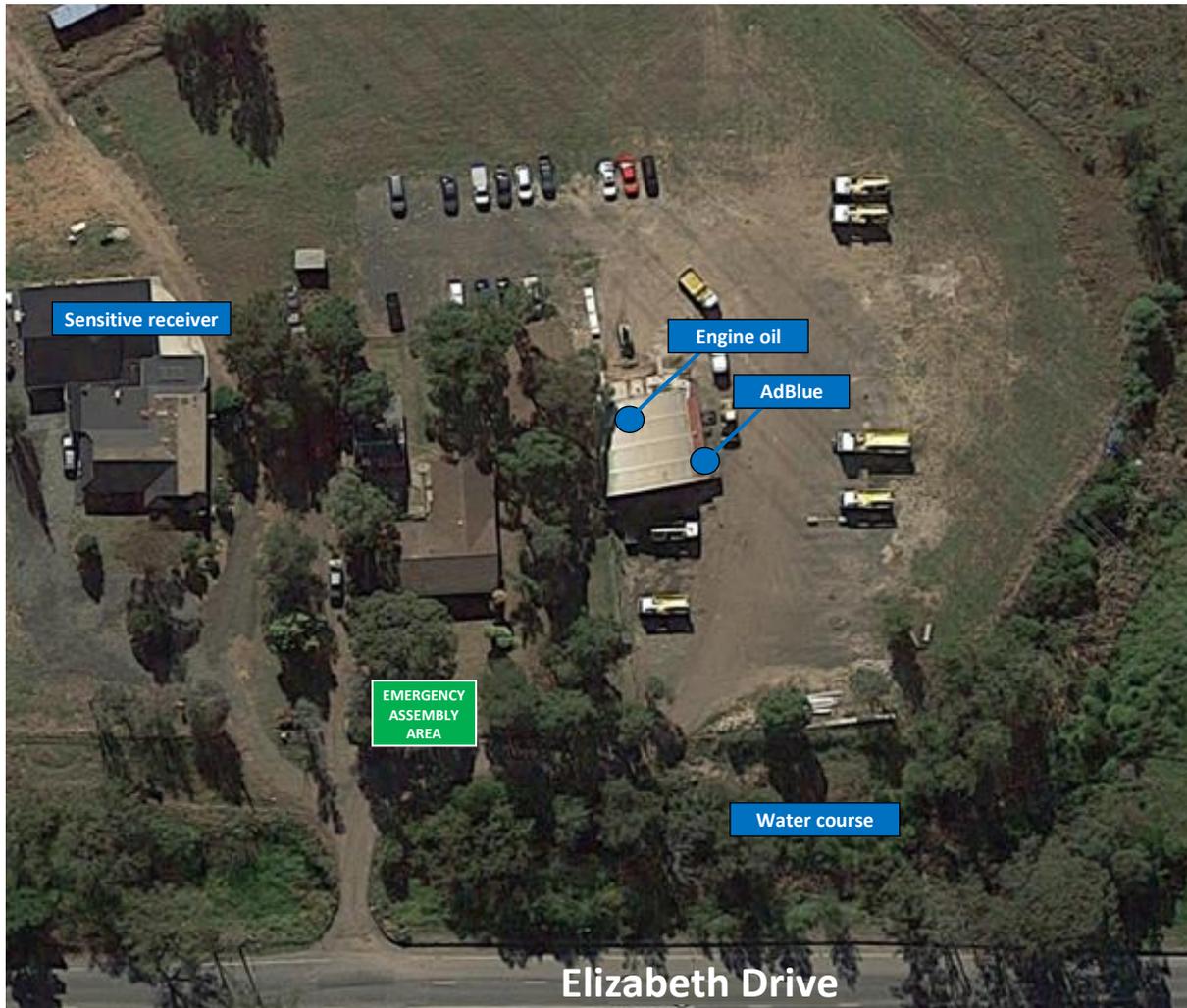
Testing of this PIRMP will require the attendance sheet (appendix 4) to be completed and the document revision to be updated if applicable. All documentation relative to the mock pollution incident including any amendments to this PIRMP is to be retained with this PIRMP and made available to the EPA any time a request is made.

8. Implementation and review of PIRMP

An annual review of this PIRMP is required. In the event a change occurs that requires this PIRMP to be reviewed within the annual period, this then becomes the revised annual review date.

Appendix 1 – Site map, Kemps Creek Facility

1341 Elizabeth Drive, Kemps Creek, NSW



Appendix 3 – Safety Data Sheets

- 1 Engine oil
- 2 AdBlue fuel additive

SAFETY DATA SHEET



Castrol Vecton 15W-40 CK-4/E9

Section 1. Identification

GHS product identifier	Castrol Vecton 15W-40 CK-4/E9
Product code	469315-AU24
SDS no.	469315
<u>Relevant identified uses of the substance or mixture and uses advised against</u>	
Use of the substance/ mixture	Engine Oils. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Manufacturer Supplier	Castrol Australia Pty Ltd Level 17, 717 Bourke Street Docklands, Victoria 3008 ABN 87 008 459 407 www.castrol.com.au Tel: +61 (03) 9268 4111 Fax: +61 (03) 9268 3321
EMERGENCY TELEPHONE NUMBER	+61 2801 44558 (or 1800 14 14 74 within Australia)
OTHER PRODUCT INFORMATION	Technical Advice Helpline Number: 1300 557 998

Section 2. Hazard(s) identification

Classification of the substance or mixture	Not classified.
<u>GHS label elements</u>	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
<u>Precautionary statements</u>	
General	P103 - Read label before use. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Supplemental label elements	Not applicable.
Other hazards which do not result in classification	Defatting to the skin. USED ENGINE OILS Used engine oil may contain hazardous components which have the potential to cause skin cancer. See Toxicological Information, section 11 of this Safety Data Sheet.

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Section 3. Composition and ingredient information

Substance/mixture Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Ingredient name	% (w/w)	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥30 - ≤60	64742-54-7
Base oil - unspecified	≥30 - ≤60	Varies - See Key to abbreviations
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	≤3	93819-94-4

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Inhalation	If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Unsuitable extinguishing media	Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal decomposition products	In a fire or if heated, a pressure increase will occur and the container may burst. Combustion products may include the following: phosphorus oxides metal oxide/oxides carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) sulphur oxides (SO, SO ₂ , etc.) nitrogen oxides (NO, NO ₂ etc.)
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Section 5. Firefighting measures

Special protective actions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Not suitable	Prolonged exposure to elevated temperature

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	Safe Work Australia (Australia). TWA: 5 mg/m ³ 8 hours. Issued/Revised: 5/1995 Form: Mist
Base oil - unspecified	Safe Work Australia (Australia). TWA: 5 mg/m ³ 8 hours. Issued/Revised: 5/1995 Form: Mist
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	DFG MAC-values list (Germany). TWA: 2 mg/m ³ 8 hours. Issued/Revised: 7/2013 Form: Inhalable fraction PEAK: 4 mg/m ³ , 4 times per shift, 15 minutes. Issued/Revised: 7/2013 Form: Inhalable fraction PEAK: 0.4 mg/m ³ , 4 times per shift, 15 minutes. Issued/Revised: 7/2012 Form: Respirable fraction TWA: 0.1 mg/m ³ 8 hours. Issued/Revised: 7/2012 Form: Respirable fraction

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety glasses with side shields.

Skin protection

Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

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Section 8. Exposure controls and personal protection

Skin protection

Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Refer to standards:

Respiratory protection:AS/NZS 1715 and AS/NZS 1716
Gloves:AS/NZS 2161.1
Eye protection:AS/NZS 1336 and AS/NZS 1337

Section 9. Physical and chemical properties

Appearance

Physical state	Liquid.
Colour	Brown.
Odour	Not available.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	Closed cup: 202°C (395.6°F) [Pensky-Martens.]
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable. Based on - Physical state
Lower and upper explosive (flammable) limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Density	<1000 kg/m ³ (<1 g/cm ³) at 15°C
Solubility	insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Kinematic: 115 mm ² /s (115 cSt) at 40°C Kinematic: 15 to 16 mm ² /s (15 to 16 cSt) at 100°C

Section 10. Stability and reactivity

Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure	Routes of entry anticipated: Dermal, Inhalation.
Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Ingestion	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

General	USED ENGINE OILS Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

Section 12. Ecological information

Persistence and degradability

Expected to be biodegradable.

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Mobility in soil

Soil/water partition coefficient (K_{oc})

Not available.

Mobility

Spillages may penetrate the soil causing ground water contamination.

Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Special Precautions for Landfill or Incineration

No additional special precautions identified.

Section 14. Transport information

	ADG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user Not available.

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Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Montreal Protocol (Annexes A, B, C, E)

Ingredient name	List name	Status
Not listed.		

Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Ingredient name	List name	Status
Not listed.		

International lists

National inventory

REACH Status

For the REACH status of this product please consult your company contact, as identified in Section 1.

Australia inventory (AICS)

All components are listed or exempted.

Canada inventory

All components are listed or exempted.

China inventory (IECSC)

At least one component is not listed.

Japan inventory (ENCS)

All components are listed or exempted.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI)

All components are listed or exempted.

United States inventory (TSCA 8b)

At least one component is not listed.

Section 16. Any other relevant information

History

Date of printing 10/07/2018

Date of issue/Date of revision 10/07/2018

Date of previous issue 31/05/2018

Version 2.02

Prepared by Product Stewardship

Key to abbreviations

ADG = Australian Dangerous Goods

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

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Section 16. Any other relevant information

NOHSC = National Occupational Health and Safety Commission
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
STEL = Short term exposure limit
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations
TWA = Time weighted average
VOC = Volatile Organic Compound
SADT = Self-Accelerating Decomposition Temperature
Varies = may contain one or more of the following 101316-69-2, 101316-70-5, 101316-71-6, 101316-72-7, 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-64-9, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 90669-74-2

Procedure used to derive the classification

Classification	Justification
Not classified.	

✔ Indicates information that has changed from previously issued version.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.



1. Identification of the material and supplier

Product name	AdBlue
SDS no.	0000003947
Product use	Reactant for reducing NOx-emissions.
Supplier	BP Australia Pty Ltd Level 17, 717 Bourke Street Docklands, Victoria 3008 ABN 53 004 085 616
	Technical Helpline Number: 1300 139 700 www.bp.com.au
EMERGENCY TELEPHONE NUMBER	1800 638 556
Product code	0000003947

2. Hazards identification

Statement of hazardous/dangerous nature	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
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3. Composition/information on ingredients

Water and Urea (31.8 - 33.2%)

This product does not contain any hazardous ingredients at or above regulated thresholds.

4. First-aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Advice to doctor	Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire-fighting measures

Extinguishing media	
Suitable	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Not suitable	Do not use water jet.
Hazardous decomposition products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides
Unusual fire/explosion hazards	In a fire or if heated, a pressure increase will occur and the container may burst.
Special fire-fighting procedures	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
Protection of fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

Handling	Put on appropriate personal protective equipment.
Storage	Store and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).
Not suitable	Prolonged exposure to elevated temperature.

8 . Exposure controls/personal protection

Occupational exposure limits	No exposure standard allocated.
Biological Limit Values	No biological limit allocated.
Exposure controls	<p>Occupational exposure controls</p> <p>Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.</p> <p>All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.</p> <p>Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.</p> <p>The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.</p>
Hygiene measures	<p>Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.</p>
Personal protective equipment	
Respiratory protection	<p>Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.</p> <p>In case of insufficient ventilation, wear suitable respiratory equipment.</p> <p>The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.</p>
Skin and body	<p>Use of protective clothing is good industrial practice.</p> <p>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.</p>
Hand protection	<p>Wear protective gloves if prolonged or repeated contact is likely.</p> <p>The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.</p>
Eye protection	Safety glasses with side shields.

9 . Physical and chemical properties

Physical state	Liquid.
Colour	Clear. Colourless.
Odour	Ammoniacal. [Slight]
Vapour pressure	Not available.
Vapour density	Not available.
pH	9.5
Boiling point / range	Not available.
Melting point / range	Not available.
Relative density/Specific gravity	Not available.
Density	1094 kg/m ³ (1.094 g/cm ³) at 20°C
Solubility	Soluble in water.
Partition coefficient (LogKow)	<1

10 . Stability and reactivity

Stability	The product is stable.
Conditions to avoid	Avoid contamination by any source including metals, dust and organic materials.
Incompatibility with various substances/Hazardous Reactions	No hazardous reactions identified.
Hazardous decomposition products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides

11 . Toxicological information

Eyes	No significant health hazards identified.
Skin	No significant health hazards identified.
Inhalation	No significant health hazards identified.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.
Acute toxicity	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs. Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea. At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
Chronic toxicity	
Other chronic toxicity data	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Carcinogenic effects	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC), or the National Occupational Health and Safety Commission (Australia).
Mutagenic effects	No known significant effects or critical hazards.

12 . Ecological information

Ecotoxicity	Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted].		
Biodegradability			
Bioaccumulative potential			
Product/ingredient name	LogP _{ow}	BCF	Potential
AdBlue	<1	-	low
Persistence/degradability	Expected to be biodegradable.		
Mobility	Soluble in water.		
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.		

13 . Disposal considerations

Disposal considerations / Waste information

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Special Precautions for Landfill or Incineration

No additional special precautions identified.

14 . Transport information

International transport regulations

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

Special precautions for user No known special precautions required. See Section: "Handling and storage" for additional information.

15 . Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Control of Scheduled Carcinogenic Substances

Ingredient name

Schedule

No Listed Substance

Other regulations

REACH Status

For the REACH status of this product please consult your company contact, as identified in Section 1.

United States inventory (TSCA 8b)

All components are listed or exempted.

Australia inventory (AICS)

All components are listed or exempted.

Canada inventory

All components are listed or exempted.

China inventory (IECSC)

All components are listed or exempted.

Japan inventory (ENCS)

All components are listed or exempted.

Korea inventory (KECI)

All components are listed or exempted.

Philippines inventory (PICCS)

All components are listed or exempted.

16 . Other information

Key to abbreviations

AMP = Acceptable Maximum Peak
ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards.
ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail
ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS Number = Chemical Abstracts Service Registry Number
HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.
ICAO = International Civil Aviation Organization.
IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.
IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.
IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.)
DMSO is a solvent.
NOHSC = National Occupational Health & Safety Commission, Australia
TWA = Time weighted average
STEL = Short term exposure limit
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

History

Date of issue

16/09/2018.

Date of previous issue

No previous validation.

Prepared by

Product Stewardship

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.