

DATA SHEET



Bluewave DEF Ultrapure Urea Sol 32.5%

Based on: GHS (rev5)(2013) Hazardous Products Regulations (HPR) - Canada

Date of issue/ Date of revision 06/26/2017 Date of previous issue 02/12/2014

Version 2.0

Section 1. Identification

Bluewave DEF Ultrapure Urea Sol 32.5% **Product name**

Product type Liquid **Product Code** PA516U

Uses

Area of application Industrial applications, Professional applications

Supplier

Supplier's details Parkland Fuel Corporation

Address

Suite 6302, 333-96th Avenue N.E. Street

Postal code T3K 0S3 City Calgary, Alberta

Country Canada

Telephone number +1 403 357 6400

e-mail address of person LubricantsTechnicalSupport@parkland.ca |

responsible for this SDS www.bluewaveenergy.ca

Emergency telephone number CANUTEC: +1 613 996 6666 or *666 (cellular) (24/7) (with hours of operation) Bluewave Energy: Monday-Friday 8:00am-4:30pm MST

+1 403 357 6400

National advisory body/Poison Center

Name Poisons and Drug Information Service

Telephone number +1 403 944 1414, (800) 332 1414 (Alberta only)

Section 2. Hazards identification

Classification and labelling have been performed following the guidelines and recommendation of GHS and the intended use.



Classification of the substance or mixture

Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : Not applicable.

Precautionary statements

General : Not applicable.

Hazards not otherwise

classified

None.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

There are no 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.

Remark : Aqueous urea solution with a content of 32,5% w/w urea

(CAS# 57-13-6).

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Rinse with plenty of running water. Check for and remove any

contact lenses. Get medical attention if irritation occurs.

Inhalation : Avoid inhalation of vapor, spray or mist. If inhaled, remove to

fresh air. Get medical attention if you feel unwell.

Skin contact: Wash with soap and water. Get medical attention if irritation

develops.

Ingestion: Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects

persist or are severe.

Most important symptoms/effects, acute and delayed

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 : No known significant effects or critical hazards. **Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

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Ingestion No specific data.

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

Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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 Protection of first-aiders No specific treatment.

No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Hazardous thermal decomposition products Use an extinguishing agent suitable for the surrounding fire.

None identified.

In a fire or if heated, a pressure increase will occur and the

container may burst.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides ammonia

Avoid breathing dusts, vapors or fumes from burning

materials.

In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

Special protective actions for

fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken

involving any personal risk or without suitable training.

Special protective equipment

for 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.

Remark Non-flammable.

Remark None.

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 spilled material. Put on appropriate

personal protective equipment.

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 spilled material and runoff and contact with

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

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(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. 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.

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Section 8).
Eating, drir

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Put on appropriate personal protective equipment (see

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. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls
Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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.

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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. Wash contaminated clothing before reusing. A washing facility or water for eye and skin cleaning purposes should be present.

Safety eyewear complying with an approved standard should Eye/face protection

> be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand protection Chemical-resistant, impervious gloves complying with an

> approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

> 8 hours (breakthrough time): Protective gloves should be

worn under normal conditions of use.

Body protection Personal protective equipment for the body should be selected

based on the task being performed and the risks involved.

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

In case of inadequate ventilation wear respiratory protection.

specialist before handling this product.

Respiratory protection

Personal protective equipment

(Pictograms)





Section 9. Physical and chemical properties

Appearance

Physical state Liquid Color Colorless.

Odor slight, ammoniacal Odor threshold Not determined.

pН 9 - 10

Melting/freezing point -11.5 °C

Boiling/condensation point 100 °C

Sublimation temperature Not determined. Flash point Not applicable

Evaporation rate Not determined. **Flammability** Non-flammable.

Lower and upper explosive

(flammable) limits

Lower: Not determined. **Upper:** Not determined.

Vapor pressure Not determined. Density 1.09 g/cm3

Relative density Not determined. Solubility Not determined. Solubility in water > 100 g/l

Partition coefficient: n-Not determined.

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octanol/water

Auto-ignition temperature : Not determined.

Decomposition temperature : Not determined.

Viscosity : **Dynamic:** 1.4 mPa.s @ 20 °C (68.00 °F)

Kinematic: Not determined.

Explosive properties : None. **Oxidizing properties** : None.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this

product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous

reactions will not occur.

Conditions to avoid : Avoid contamination by any source including metals, dust and

organic materials.

Incompatible materials : Urea reacts with calcium hypochlorite or sodium hypochlorite

to form the explosive nitrogen trichloride.

Remark : Reactive or incompatible with the following materials:

Oxidizing agents

acids alkalis

Nitrites and nitrates

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

Acute toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Irritation/Corrosion

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards.

Respiratory: No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

SkinRespiratory

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity

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Conclusion/Summary: No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary: No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely

routes of exposure

Not available.

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:No known significant effects or critical hazards.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 : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/SummaryNo known significant effects or critical hazards.GeneralNo known significant effects or critical hazards.

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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.

Over-exposure signs/symptoms

Eye contact No specific data.

Inhalation No specific data.

Skin contact No specific data.

Ingestion No specific data.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Conclusion/Summary No known significant effects or critical hazards.

Persistence/degradability

Conclusion/Summary No known significant effects or critical hazards.

Bioaccumulative potential

Conclusion/Summary No known significant effects or critical hazards.

Mobility in soil

Soil/water partition

coefficient (KOC)

Mobility This product may move with surface or groundwater flows

Not available.

because its water solubility is: high

Other adverse effects No known significant effects or critical hazards.

Section 13. Disposal considerations

Product

Methods of disposal The generation of waste should be avoided or minimized

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

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of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulation: UN Class		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards	No.	
14.6 Additional information Environmental hazards : No.		
Regulation: IMDG		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name	3	
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards		
14.6 Additional information		
Regulation: IATA		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards		
14.6 Additional information		
Regulation: DOT Classification		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards	No.	
14.6 Additional information Environmental hazards : No.		
Regulation: TDG Class		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name		

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14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
14.6 Additional information Environmental hazards	: No.

Special precautions for user: Transport within user's premises: Ensure that persons

transporting the product know what to do in the event of

an accident or spillage.'

IMSBC : Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Proper shipping name : Urea solution

Ship type : 3
Pollution category : Z

Section 15. Regulatory information

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International lists

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Korea inventory: All components are listed or exempted. **Japan inventory:** All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted. Australia inventory (AICS): All components are listed or exempted.

Canada inventory (DSL and NDSL): All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

Safety, health and environmental regulations specific for the product

No known other specific national and/or regional regulations applicable to this product (including its

ingredients).

Section 16. Other information

Key to abbreviations : ADN/ADNR = European Provisions concerning the International Carriage of

Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

bw = Body weight

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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

NOHSC - National Occupational Health and Safety Commission

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RID = The Regulations concerning the International Carriage of Dangerous

Goods by Rail

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons

UN = United Nations

References : EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9,

Canada.

Procedure used to derive the classification

Classification	Justification
Not classified.	Calculation method

History

Version

Date of printing: 06/26/17Date of issue/Date of revision: 06/26/17Date of previous issue: 02/12/2014

Prepared by : Mansfield Oil Company.

Indicates information that has changed from previously issued version.

2.0

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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