Conforms: GHS (rev 3)(2009)

(This Safety Data Sheet conforms to the requirements of the Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012.) - United States

Date of issue/ Date of revision

11/25/2014

Date of previous issue

02/12/2014

Version

1.1



SAFETY DATA SHEET

Air 1 DEF

DEF Ultrapure Urea Sol 32.5%

Section 1. Identification

Product name

DEF Ultrapure Urea Sol 32.5%

Product type Product code : Liquid PA5167

Uses

Area of application

Industrial applications, Professional applications

Supplier

Supplier's details

: Yara North America, Inc.

Address

Street

100 North Tampa Street, Suite 3200

Postal code

33602 **TAMPA**

City Country

United States

Telephone number

+1 813 222 5700

Fax no.

+1 813 875 5735

e-mail address of person responsible for this SDS

yna-hesq@yara.com

Emergency telephone number

US: Chemtrec 24-hours Emergency Response: 1-800-424-9300

(with hours of operation)

Canada: 24 Hour Emergency Service, (Canutec 613-996-6666)

National advisory body/Poison Center

Name

The National Poisons Emergency number

Telephone number

1 800 222 1222

Section 2. Hazards identification

OSHA/HCS status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

Any concentration shown as a range is to protect confidentiality or is due to batch variation. 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.

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

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.

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

Inhalation

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

Ingestion

•

No specific data.

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,

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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 Remark : Non-flammable.

: 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 (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

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Large spill

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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 (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

Advice on general occupational hygiene

1

Put on appropriate personal protective equipment (see Section 8).

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.

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.

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

Eye/face protection

water for eye and skin cleaning purposes should be present.
Safety eyewear complying with an approved standard should 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

specialist before handling this product.

Respiratory protection

Personal protective equipment

(Pictograms)

In case of inadequate ventilation wear respiratory protection.



Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state Color

state : Liquid : Colorless.

Odor

: slight, ammoniacal

Odor threshold pH

Not determined.9 - 10

Melting/freezing point

: -11.5 °C (11.30 °F)

Boiling/condensation point

100 °C (212.00 °F)

Sublimation temperature

Flash point

Not determined.Not applicable

Evaporation rate Flammability

Not determined.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 Solubility

Not determined.Not determined.

Solubility in water

: > 100 g/l

Partition coefficient: n-

Not determined.

octanol/water

Auto-ignition temperature Decomposition temperature

Not determined.
Not determined.

Viscosity

Dynamic: 1.4 mPa.s @ 20 °C (68.00 °F)

Kinematic: Not determined.

Explosive properties Oxidizing properties

None 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

Skin

No known significant effects or critical hazards. No known significant effects or critical hazards.

Respiratory <u>Mutagenicity</u>

Conclusion/Summary

No known significant effects or critical hazards.

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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 Ingestion

No known significant effects or critical hazards.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/Summary

No known significant effects or critical hazards.

General

No known significant effects or critical hazards.No known significant effects or critical hazards.

Carcinogenicity Mutagenicity Teratogenicity

No known significant effects or critical hazards.

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No known significant effects or critical hazards.

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Developmental effects

Fertility effects

No known significant effects or critical hazards.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

: Not available.

......y

: This product may move with surface or groundwater flows

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

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<u>United States - RCRA Acute hazardous waste "P" List:</u>

Not listed

United States - RCRA Toxic hazardous waste "U" List:

Not listed

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		
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	-1	

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.

Environmental hazards

: No.

Regulation: TDG 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.

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. 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 Z

Pollution category

Section 15. Regulatory information

United States

U.S. Federal regulations

United States - TSCA 12(b) - Chemical export

notification: None of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(e) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not

listed

United States - TSCA 4(f) - Priority risk review: Not

United States - TSCA 5(a)2 - Final significant new use

rules: Not listed

United States - TSCA 5(a)2 - Proposed significant new

use rules: Not listed

United States - TSCA 5(e) - Substances consent order:

Not listed

United States - TSCA 6 - Final risk management: Not

listed

United States - TSCA 6 - Proposed risk management:

Not listed

United States - TSCA 8(a) - Comprehensive

assessment report (CAIR): Not listed

United States - TSCA 8(a) - Chemical risk rules: Not

listed

United States - TSCA 8(a) - Dioxin/Furane precusor:

Not listed

United States - TSCA 8(a) - Chemical Data Reporting

(CDR): Not determined

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United States - TSCA 8(a) - Preliminary assessment

report (PAIR): Not listed

United States - TSCA 8(c) - Significant adverse

reaction (SAR): Not listed

United States - TSCA 8(d) - Health and safety studies:

United States - EPA Clean water act (CWA) section

307 - Priority pollutants: Not listed

United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed Ammonia United States - EPA Clean air act (CAA) section 112 -

Accidental release prevention - Flammable

substances: Not listed

United States - EPA Clean air act (CAA) section 112 -Accidental release prevention - Toxic substances:

Not listed

Not listed

United States - Department of commerce - Precursor

chemical: Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants

(HAPs)

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

Class II Substances

DEA List I Chemicals

(Precursor Chemicals) **DEA List II Chemicals**

(Essential Chemicals)

Not listed

Not listed

Not listed

Not listed

SARA 302/304

SARA 304 RQ

111111.1 lbs

SARA 311/312

Classification

No products were found.

Not applicable.

State regulations

Massachusetts None of the components are listed. New York None of the components are listed. New Jersey None of the components are listed. Pennsylvania None of the components are listed.

California Prop. 65

This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Hazardous Material Information System (U.S.A.)

Health -	0
ademinerality	0
Physical hazards	0

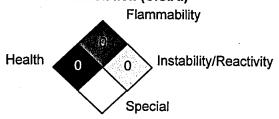
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Chronic toxicity:

- : No data available.
- *: Carcinogen, Target organs, Reproductive effects, Sensitizer to lungs

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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

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.

History

Date of printing

12/22/2014

Date of issue/Date of revision

11/25/2014 02/12/2014

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: 1.1

Prepared by

Yara Product Classifications & Regulations.

Indicates information that has changed from previously issued version.

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.



Safety Data Sheet

Issue Date: 22-Oct-2012

Revision Date: 26-June-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name

LUBRIGUARD™ SKYBLUE™ DEF

Other means of identification

SDS#

LUB-004

CAS#

Mixture

Product Use

Diesel Exhaust NOx Reducing Agent

Details of the supplier of the safety data sheet

Supplier Address Warren Oil Company 915 E. Jefferson Ave. West Memphis, AR 72301

Emergency Telephone Number

Company Phone Number

1-800-428-9284

Emergency Telephone (24 hr)

CHEMTREC 1-800-424-9300 (North America) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Not classified

Label Elements

GHS-US Labeling

No labeling applicable

Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US) No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	67.5	Not classified
Urea	(CAS No) 57-13-6	32.5	Not classified

4. FIRST-AID MEASURES

Description of First Aid Measures

General:

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

Inhalation:

When symptoms occur: go into open air and ventilate suspected area. Obtain medical

attention if breathing difficulty persists.

Skin Contact:

Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

Obtain medical attention if irritation develops or persists.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Ingestion:

Rinse mouth. DO NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General:

Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation:

Prolonged exposure to liquid may cause a mild irritation.

Skin Contact:

May cause mild skin irritation.

Eye Contact: Ingestion:

Prolonged exposure to liquid may cause a mild irritation. Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms:

Not available

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Ingestion is likely to be harmful or have adverse effects.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard:

Not considered flammable but may burn at high temperatures.

Explosion Hazard:

Product is not explosive.

Reactivity:

Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire:

Exercise caution when fighting any chemical fire.

Firefighting Instructions:

Use water spray or fog for cooling exposed containers.

Protection During Firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion

Oxides of Carbon, Nitrogen, Ammonia

Products:

Reference to Other Sections

Refer to Section 9 for flammability properties.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures:

Avoid breathing (vapor, mist, spray). Avoid prolonged contact with eyes, skin and clothing.

For Non-Emergency Personnel

Protective Equipment:

Use appropriate personal protection equipment (PPE).

Emergency Procedures:

Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Emergency Procedures: Equip cleanup crew with proper protection. Stop leak if safe to do so. Ventilate area.

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Environmental Precautions

Prevent entry to sewers and public waters. Contact competent authorities after a spill.

Methods and Material for Containment and Cleaning Up

For Containment:

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for Cleaning Up:

Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with

inert material, then place in suitable container.

Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When

When heated to decomposition, emits toxic fumes.

Processed: Hygiene Measures:

Handle in accordance with good industrial hygiene and safe procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and

again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Storage Conditions:

Comply with applicable regulations.

Store in a dry, cool, and well-ventilated place. Keep container closed when not in use.

Incompatible Materials:

Keep/Store away from extremely high or low temperatures, incompatible materials.

Strong acids. Strong bases. Strong oxidizers. Alkalis.

Specific End User(s)

Diesel Exhaust NOx Reducing Agent

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No additional information available.

Exposure Controls

Appropriate Engineering Controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: In case of splash hazard: safety glasses



Materials for Protective

Not applicable.

Clothing:

Hand Protection:

Wear chemically resistant protective gloves.

Eye Protection:

In case of splash hazard: chemical goggles or safety glasses.

Skin and Body Protection:

Wear suitable protective clothing.

Respiratory Protection:

If exposure limits are exceeded or irritation is experienced, approved respiratory protection

should be worn.

Other information:

When using, do not eat, drink, or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State:

Liquid

Appearance:

Colorless, clear

Odor: Odor Threshold:

Slight Ammonia Not available 9.8 - 10

pH: **Evaporation Rate: Melting Point:** Freezing Point:

Boiling Point:

Not available Not available -12°C (11°F) 104°C (219°F)

Flash Point: Auto-ignition Temperature: **Decomposition Temperature:**

Not available Not available Not available Not available Not available Not available

Flammability (solid, gas): Lower Flammable Limit: Upper Flammable Limit: Vapor Pressure:

Not available Not available

Relative Vapor Density at 20°C: Relative Density:

Not available

Specific gravity / density:

9.0909 lbs. / USG - 4.13 kg / 3.785L @ 20°C (68°F)

Specific Gravity:

1.087-1.093 @ 20°C (68°F)

Solubility:

100%

Partition Coefficient: N-Octanol/

Not available

Water:

Viscosity:

Not available

Explosion Data - Sensitivity to

Mechanical Impact:

Not expected to present an explosion hazard due to mechanical impact.

Explosion Data - Sensitivity to

Static Discharge:

Not expected to present an explosion hazard due to static discharge.

10. STABILITY AND REACTIVITY

Reactivity:

Hazardous reactions will not occur under normal condition.

Chemical Stability:

Stable under recommended handling and storage conditions (see Section 7).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid:

Extremely high or low temperatures. Incompatible materials.

Incompatible Materials: **Hazardous Decomposition**

Strong acids. Strong bases. Strong oxidizers. Alkalis. Nitrogen oxides. Irritating fumes. Ammonia. Carbon oxides. (CO, CO₂)

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity:

Not classified Not available

LD50 and LC50 Data:

Not classified

Skin Corrosion/Irritation: pH:

9.8 - 10

Respiratory or Skin Sensitization:

Not classified

Germ Cell Mutagenicity:

Not classified Not classified

Teratogenicity: Carcinogenicity:

Not classified Not classified

Specific Target Organ Toxicity (Single Exposure):

Aspiration Hazard:

Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure to liquid may cause a mild irritation.

Symptoms/Injuries After Skin

May cause mild skin irritation.

Contact:

Symptoms/Injuries After Eye

Prolonged exposure to liquid may cause a mild irritation.

Contact:

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)		
LD50 Oral Rat	> 90000 mg/kg	

Urea (57-13-6)

LD50 Oral Rat 8471 mg/kg

12. ECOLOGICAL INFORMATION

Toxicity

No additional information available

Urea (57-13-6)	
LC50 Fish 1	16200 – 18300 mg/l (Exposure time: 96 h – Species: Poecilia reticulate)
EC50 Daphnia 1	3910 mg/l (Exposure time: 48 h – Species: Daphnia magna [Static])

Persistence and Degradability

Diesel Exhaust Fluid		
Persistence and Degradability	Not established	
Bioaccumulative Potential		
Diesel Exhaust Fluid		
Bioaccumulative Potential	Not established	
Urea (57-13-6)		· · · · · · · · · · · · · · · · · · ·
BCF Fish 1	< 10	
Log Pow	-1.59 (at 25°C)	

Mobility in Soil

Not available

Other Adverse Effects

Other Information:

Avoid release to the environment

Other adverse effects

Not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

14. TRANSPORT INFORMATION

In Accordance with DOT:

In Accordance with IMDG:

Not regulated for transport

In Accordance with IATA:

Not regulated for transport

Not regulated for transport

In Accordance with TDG:

Not regulated for transport

15: REGULATORY INFORMATION

US Federal Regulations

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) Inventory

Urea (57-13-6)

Listed on the United States TSCA (Toxic Substances Control Act) Inventory

US State Regulations

Urea (57-13-6)

U.S. - Minnesota - Hazardous Substance List

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

Diesel Exhaust Fluid

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Urea (57-13-6)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPF) and the SDS

contains all of the information required by CPR.

16. OTHER INFORMATION

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

NFPA Health Hazard:

1 - Exposure could cause irritation but only

minor residual injury even if not treatment is

given

NFPA Fire Hazard:

0 - Materials that will not burn.

NFPA Reactivity:

0 - Normally stable, even under fire exposure

conditions, and are not reactive with water.

HMIS III Rating

Health:

1 Slight Hazard - Irritation or minor reversible injury possible

Flammability:

0 Minimal Hazard

Physical:

0 Minimal Hazard

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issue Date:

22-Oct-2012

Revision Date:

27-April-2015

Revision Note:

New format

End of Safety Data Sheet

Safety Data Sheet

Revision Issued: 05/20/2015 Supersedes: 03/01/2014 First Issued: 6/15/2010

	Oupersedes. 03/01/2014	First Issued: 6/15/2010	
Section I – Product and	Company Identification		
Product Name:	VICTORYBLUE		
Common Name:	Urea, Liquor 32.5%		
Company Name:	Victory Blue, LLC		
Address:	1670 Keller Parkway Suite 245, Keller, TX 7624	18	
Phone Number:	(817) 337-3311		
Email:	customerservice@govictoryblue.com www.govi	ctoryblue.com	
Emergency Phone Number:	Chemtrec: (800) 424-9300		
Recommended Use:	NOx Abatement Solution		
Recommended Restrictions:	None Known		

Hazard Classification:	Health Category 1, Non-flammable Liquid
Signal Word:	
	CAUTION!
Hazard Statement:	WARNING: May cause skin irritation and eye irritation.
Pictogram:	
Precautionary Statements:	Do not breathe vapor or mist. Do not eat, drink or smoke when using this product. Avoid contact with eyes skin and clothing. Wash thoroughly after handling.
Potential Acute Health Effects:	Skin: Repeated or prolonged contact may cause reddening, itching and inflammation. Ingestion: A single dose of 100 grams has reportedly caused mild symptoms of Central Nervous System depression e. g. drowsiness and slow reflexes.
Eyes and Skin:	Eyes: Liquid contact may irritate mildly. Mist contact may also irritate mildly. Contact with heated material may cause thermal burns. Skin: Liquid contact may irritate mildly with repeated or prolonged exposure.
Inhalation:	In the unlikely event that mist is formed, respiratory tract irritation may occur.
Ingestion:	A single dose of 100 grams has reportedly caused mild symptoms of Central Nervous System depression (e.g. drowsiness, slow reflexes, and slurred speech). May cause gastrointestinal disturbances (symptoms may include irritation, nausea, vomiting and diarrhea). Call a doctor if you fell unwell. Rinse mouth.
Potential Chronic Health Effects:	No potential chronic effects known. Urea is a naturally occurring chemical in the body. It is an end product of protein metabolism and is excreted in the urine.
CARCINOGENICITY LISTS	IARC Monograph: No NTP: No OSHA: No

Chemical Name			Exposure Limits							
	CAS N	o. osh	OSHA PEL		TLV - TWA		STEL		IDLH	
	·	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	% by Weight
Urea (CO(NH2)2)	57-13-6	6	50		25		35	 	300	31 - 70
Water	7732-18	-5	None established							30 - 69
Common Name:	Aqueous solutio	ns of Urea	(30%-70%)					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Synonym:		Urea Solution								

Section IV	/=First Aid Measures
Eyes:	Check for and remove contact lenses. Promptly flush with water, continuing for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. If irritation persists, consult a physician immediately.
Skin:	Wash area of contact thoroughly with soap and water. Flush skin immediately with cold water. Take off contaminated clothing and launder clothing before reuse. Clean shoes thoroughly before use. If irritation persists, consult a physician immediately.
Ingestion:	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Keep affected person warm and treat for shock. A single dose of 100 grams has reportedly caused mild symptoms of Central Nervous System depression (drowsiness, etc.). Consult a physician immediately if you feel unwell.
Inhalation:	Remove affected person from source of exposure. If not breathing, ensure open airway and initiate CPR. If breathing is difficult, administer oxygen by trained personnel; seek medical attention. Loosen tight clothing such as helts or ties
Physician:	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.

Flash Point:	Not Applicable	Auto ignition Temperature:	Not Applicable
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable
Flammability of Product:	Non-Flammable, however burst.	er in a fire or if heated a pressure increase	
Special exposure hazards:	See Hazardous Decomp	osition Products, Section X.	
Extinguishing Media:			
Suitable:	Use an extinguishing ag are acceptable.	ent suitable for the surrounding fire. Wate	r recommended. All standard agents
Not Suitable:	None known.		
Special Firefighting Procedures and Equipment:	Wear sufficient self-cont containers cool.	ained breathing apparatus approved by Ni	OSH. Use water spray to keep

Cecilon VI -	Accidental Release Measures
Personal Precautions:	Keep unnecessary and unprotected personnel from entering. Do not touch or walk though spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate P.P.E (see Section 8).
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number 800-424-8802. In case of accident or road spill notify: CHEMTREC IN USA at 800-424-9300; CANUTEC in Canada at 613-996-6666 CHEMTREC in other countries at (International code) 1-703-527-3887.
Small Spill:	Promptly absorb with commercial or other absorbent (to include sand) and shovel into container for disposal. Dilute with water and mop up and pour into container for disposal via licensed waste contactor.
Large Spill:	Stop leak if without risk. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Contain and collect spillage using commercial or other absorbent (to include sand) and place in container for disposal according to local regulations. Dispose of via a licensed waste contractor.
Comments:	See Section XIII for disposal information and Section XV for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

Section V	II = Handling and Storage
Handling:	Avoid contact with eyes. Avoid prolonged or repeated contact with skin or clothing. Avoid breathing mist. Eating, drinking, or smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash face and hands before eating, drinking, or smoking. Remove contaminated clothing and P.P.E. before entering eating areas. Do not ingest. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or mist. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container.
Storage:	Protect from physical damage. This material is vented in storage. Avoid containers, piping or fittings made of iron, brass, bronze, or other copper-bearing alloys, or galvanized metal. Store original container protected from sunlight in a dry, cool, and well ventilated area away from incompatible materials and food and drink. Do not store in unlabeled containers.

*		U	Inited S	tates and	Canada	a				
		Exposure Limits								
Chemical Name	CAS No.	OSHA PEL		TLV – TWA (8 hours)		STEL		IDLH		% by
		mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	Weight
Urea (CO(NH2)2)	57-13-6		50	10	25		35		300	31 - 70
Water	7732-18-5				None estab	lished				30 - 69
Engineering Controls:	recomm	exposure to airborne contaminants. If this product contains ingredients with exposure limits, use enclosures, local exhaust ventilation or other engineering controls to keep worker exposure belongerecommended or statutory limits.					below any			
Hygiene measures:	and usir remove	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.						be used to		
Personal Protection:		_						-		
Respiratory Protection:	selection	Not generally required. If misty condition prevails, wear a NIOSH approved mist respirator. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.								
Hand Protection:	Impervi	Impervious gloves. 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								
Eye Protection:	Wear cl complyinecessa	nemical sang with an arvite avoice of the second se	afety gogg approved d exposure	gles or face s standard show to liquid spla- nless the asse	hield. Do Nuld be used shes, mists	NOT wear of the NOT when a rise or dusts. I	contact sk asses	lenses. S ssment in	Safety eyew dicates this ble, the follo	ear is owing
Protective Clothing and S Protection:		i <mark>erally req</mark> ng perform	uired. Pened and the	ersonal protect e risks involve	ive equipm d.	ent for the	body sl	nould be s	selected ba	sed on the

Appearance/Physical State/Color/Odor:	This material at normal conditions is colorless liquid; mildly ammonia type odor.	Boiling Point (50% urea solution):	106°C
Melting Point/Range:	Salt Out Temperature: 50% @ 63°F 17°C 65% @ 115°F 46°C 70% @ 135°F 57°C	Specific Gravity:	50%: 1.14 @ 75°F 65%: 1.165 @ 135°F 70%: 1.175 @ 155°F 32.5%: 1.090 @ 68°F (20°C)
Solubility in Water:	100%	Vapor Pressure (mmHg):	220 mmHg at 20°C
Boiling Point Range:	Not Applicable	Molecular Weight:	60.07 (100% Urea)
Vapor Density:	1.07 g/cm³	% Volatiles:	Not Applicable
(lb./gal): Density:	9.2 - 9.7 @ 100°F (40-70%) 32.78°C 9.5 @ 75°F (Foliar 50) 23.89°C 9.7 @ 115°F (65% Agricultural) 46.12°C 9.7 @ 145°F (70% Industrial) 62.78°C 9.09 @ 68°F 20°C (32.5%)	Decomposition Temperature	
pH:	Typically 10.0 [7.2 (100 g/L)]	Freezing Point:	See Melting Point
Flash Point	Not Applicable (Does not Sustain combustion	Partition Coefficient:	Not available
Flammability:	Not Applicable (Does not Sustain combustion)	Viscosity:	Not Applicable
Explosive Limits:	Not Applicable	Evaporation Rate:	Not Applicable
Auto Ignition Temperature:	Not Applicable (Does not Sustain combustion		

Section X – Stability a	nd Reactivity
Reactivity:	Materials to avoid: SODIUM NITRITE, PHOSPHORUS PENTACHLORIDE, and NITROSYLPERCLORATE. May react with NITRATES, ALKALIES, OXIDIZING AGENTS, HYPOCHLORITE, ALDEHYDES, INORGANIC ACIDS, ALEFINS, and POLYMERIZABLE ESTERS. CORROSIVE TO COPPER and COPPER ALLOYS.
Chemical Stability:	This product is stable under normal ambient conditions of temperature and pressure.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	The evaporation residue should not be heated above its melting point, 133°C: Decomposes to hazardous products.
Materials to Avoid (Incompatibles):	Avoid contact with strong oxidizers (e.g. chlorine, peroxide, chromates, nitric acid, perchlorates, concentrated oxygen, and permanganates) which can generate heat, fire or explosions or release toxic fumes.
Hazardous Decomposition Products:	If the evaporation residue is heated to the melting point or above, Ammonia and Carbon Dioxide are formed. Some Ammonia and CO ₂ are given off on heating the aqueous product. Under some conditions of pressure and temperature, some Ammonium Cyanate has also been reported.

Significant Routes of Exposure:	Eyes, Digestive Tract, Respiratory Tract, Skin							
	Acute Oral Toxicity:			(rat): $LD_{50} = 14,300 - 15,000 \text{ mg/kg}$; (mouse) $11,500 - 13,000 \text{ mg/kg}$.; (cattle): $LD_{50} = 510 \text{ mg/kg}$				
	Acute Inhalation Toxicity:			No data available.				
	Acute Toxicity: Other Ro	utes:	No	data available				
Toxicity to Animals:	Acute Dermal Toxicity:		No	data available				
	Repeated Dose Toxicity:		(ra	t) 24 weeks; dermal - NOAEL = 40% in ointment				
	Eye & Skin Irritation/Corrosion:			Skin Irritation/Corrosion: Mouse – Not irritating (10% solution) Eye Irritation/Corrosion: Rabbit – Not irritating (50% solution)				
	Not found to be toxic by oral exposure as defined by OSHA. Based on toxicity data for another compound (i.e., ammonium nitrate), not expected to be toxic by dermal and inhalation exposure as defined by OSHA.							
Special Remarks on Toxicity to Animals:	Developmental Toxicity/Teratogenicity:			Not teratogenic.				
	Bacterial Genetic Toxicit Mutation:	y In-Vitro: Gene		(Salmonella typhimurium) – Bacterial reverse mutation assay-Negative; Chinese Hamster Chromosomal aberration test Positive (very high dose); Mouse Mous lymphoma TK locus assay Positive (very high dose).				
	Non-Bacterial Genetic Toxicity In-Vitro: Chromosomal Aberration:			Mouse – Bone marrow cytogenetic test – Positive (extremely high dose).				
	Toxicity to Reproduction	•		No toxic effects on mouse gonads up to 6,750-mg/kg day. No toxic effects on rat gonads up to 2,250-mg/kg day.				
	Carcinogenicity:			No data available				
Other Effects on Humar	ns:	May cause gast vomiting and di	trointe arrhea	estinal disturbances (symptoms may include irritation, nausea				
Special Remarks on Ch	ronic Effects on Humans:	No chronic effe	cts kn	own.				
Special Remarks on Otl	her Effects on Humans:	May be irritating at > 10% concentration; not a skin sensitizer. Despite extensive medical use, no significant side effects on humans have been noted.						

	EPA Ecological Toxicity rating :	The state of the s				
	Acute Toxicity to Fish:	96 -h: (Barillius bama) LC ₅₀ (96 hr.)> 9,100 mg/L.				
	Chronic Toxicity to Fish:	No data available				
	Acute Toxicity to Aquatic Invertebrates:	(Daphnia magna): 24 - h EC ₅₀ = > 10,000 mg/L. [DIN 38412 Part II modified]				
Eco toxicity	Chronic Toxicity to Aquatic Invertebrates:	No data available				
	Acute Toxicity to Aquatic Plants:	(Scenadesmus quadricauda) 192-hr cell multiplication inhibitiontest TT>10,000 mg/L. [Call multiplication inhibitortest]				
	Toxicity to Other Non-Mammalian Terrestrial Species:	(Pigeon)-Subcutaneous-LDLO=16,000 mg/kg.				
	Toxicity to Terrestrial Plants:	No data available				
	Stability in Water:	T _{1/2} > 1 year. Since Urea is a fertilizer, it may promote eutrophica in waterways. Non-toxic to aquatic organisms as defined by USE				
Environmental Fate:	Stability in Soil:	(Glycine max (L.) Merr.: Leaf tip necrosis [7 day exposure to 9 mg urea/leaf]				
	Transport and Distribution:	Transport: 0.16% in air; 99.84% in water [Calculated fugacity Level1 type]				
Toxicity:	No known toxicity					
Degradation Products:	Biodegradation:	Ultimately biodegradable. [OECD Guideline 302B]				
Degradation Products.	Photo degradation:	No data available				

Section XIII – Dis	posal Considerations
Product Disposal:	Disposal of Urea may be subject to federal, state or local regulations. 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.
General Comments:	Users of this product should review their operations in terms of applicable federal, state and local laws and regulations. Consult with appropriate regulatory agencies before discharging or disposing of waste material. The generation of waste should be avoided or minimized wherever possible Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Empty containers or liners may retain some product residues.
Sewer Statement:	Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

·	USDOT	TDG - Canada
Proper Shipping Name:	Not regulated	Not regulated
Hazard Class:		
Identification Number:		
Packing Group (Technical Name):		
Labeling / Placarding:	·	
Authorized Packaging:		
Notes:		
European Transportation:		

Section XV – Regula	tory Info	rmatio	n								
	This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendment and reauthorization Act of 1986 (SARA title III) and is considered, under applicable definitions, to meet the following categories:										
UNITED STATES: SARA Hazard Category:	Fire:	No	Pressure Generating:	No	Reacti	Reactivity: No		Acute:	Yes	Chronic:	No
	40 CFR Part 355 - Extremely Hazardous Substances: None Applicable										•
	40 CFR Part 370 - Hazardous Chemical Reporting:								None Applicable		
	All intentional ingredients listed on the TSCA inventory.										
SARA Title III Information:	This product contains the following substances subject of the reporting requirements of Title III (EPCRA) of the Superfund amendments and Reauthorization Act of 1986 and 40 CFR Part 372:										
Chemical	CAS NO.		Percent by Weight	CERCLA RQ (lbs.)*							
Urea	57-		97.5 - 99.7	N/	<u> </u>	Yes		Yes		313 NA	
CERCLA/Superfund, 40 CFR Parts 117, 302:	If this product contains components subject to substances designated as CERCLA reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington D.C. (1-800-424-8802) is required.										
CANADA:	WHMIS Hazard Symbol and Classification:					This product is not WHMIS controlled .					
	Ingredient Disclosure List:					This product does contain ingredient(s) on this list.					
	Environmental Protection:					All intentional ingredients are listed on the DSL (Domestic Substance List).					
EINECS#:	(Urea) 200-315-5										
California: Prop 65:	This is no	t a chemic	al known to ca	use can	cer, nor is	s it listed					

Section XVI – Othe	er Information					
NFPA Hazard Ratings:	0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme	Health: 1 Flammability: 0 Instability: 0 Special Hazards: 0				
COMMENTS:	This product is TSE/BSE (Transmissible Spongiform Encephalopathy/Bovine Spongiform Encephalopathy) free. There are no animal constituents used in the manufacture of Urea, liquor for Victory Blue LLC. Our product is created through a chemical process.					
Section(s) changed since last revision:	Changed format to comply with OSHA GHS requirements. Now named Safety Data Sheet (SDS) formerly named Material Safety Data Sheet (MSDS). Changed Date: 20 MAY 2015					

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