

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**Version Number 1.0  
Revision Date 02/28/2019Page 1 of 17  
Print Date 03/02/2019

# SAFETY DATA SHEET

## XDW WB TRANSFER BASE

### Section 1. Identification

GHS product identifier : XDW WB TRANSFER BASE  
Chemical name : Mixture  
CAS number : Mixture  
Other means of identification : FO20044489  
Product type : liquid

**Relevant identified uses of the substance or mixture and uses advised against**

Product use : Industrial applications. Plastics.

Supplier's details : **POLYONE CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012  
  
1 (440) 930-1000 or 1 (866) POLYONE

Emergency telephone number (with hours of operation) : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

### Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : EYE IRRITATION - Category 2A

**GHS label elements**

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 2 of 17  
Print Date 03/02/2019

**Hazard pictograms**

:


**Signal word**

:

Warning

**Hazard statements**

:

Causes serious eye irritation.

**Precautionary statements**
**General**

:

Not applicable.

**Prevention**

:

Wear eye or face protection. Wash hands thoroughly after handling.

**Response**

:

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage**

:

Not applicable.

**Disposal**

:

Not applicable.

**Supplemental label elements**

:

None known.

**Hazards not otherwise classified**

:

None known.

**Section 3. Composition/information on ingredients**
**Substance/mixture**

:

Mixture

**Chemical name**

:

Mixture

**Other means of identification**

:

FO20044489

**CAS number/other identifiers**

Ingredient name	%	CAS number
Urea	5 - 10	57-13-6
Diethylene glycol	5 - 10	111-46-6
1,2,3-Propanetriol	1 - 3	56-81-5

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

**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.**

## SAFETY DATA SHEET


**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 3 of 17  
Print Date 03/02/2019

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

**Section 4. First aid measures**
Description of necessary first aid measures

- |                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.   |
| <b>Inhalation</b>   | : | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.  |
| <b>Skin contact</b> | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
| <b>Ingestion</b>    | : | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

Most important symptoms/effects, acute and delayed
Potential acute health effects

- |                     |   |   |
|---------------------|---|---|
| <b>Eye contact</b>  | : | Causes serious eye irritation.                    |
| <b>Inhalation</b>   | : | No known significant effects or critical hazards. |
| <b>Skin contact</b> | : | No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : | No known significant effects or critical hazards. |

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 4 of 17  
Print Date 03/02/2019

**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

- Notes to 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.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

**Section 5. Firefighting measures**
**Extinguishing media**

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/oxides
- 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

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 5 of 17  
Print Date 03/02/2019

in positive pressure mode.

**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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized 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 materials 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. Approach release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. 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** : Put on appropriate personal protective equipment (see Section 8). Do

## SAFETY DATA SHEET


**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 6 of 17  
Print Date 03/02/2019

- not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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.
- 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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
1,2,3-Propanetriol	<b>OSHA PEL 1989 (1989-03-01)</b> TWA 10 mg/m <sup>3</sup> Form: Total dust TWA 5 mg/m <sup>3</sup> Form: Respirable fraction <b>OSHA PEL (1993-06-30)</b> TWA 15 mg/m <sup>3</sup> Form: Total dust TWA 5 mg/m <sup>3</sup> Form: Respirable fraction
Urea	<b>AIHA WEEL (1999-01-01)</b> TWA 10 mg/m <sup>3</sup>
Diethylene glycol	<b>AIHA WEEL (1999-01-01)</b> TWA 10 mg/m <sup>3</sup>

- Appropriate engineering controls** :
- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** :
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 7 of 17  
Print Date 03/02/2019

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 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : 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.
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Section 9. Physical and chemical properties**
**Appearance**

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 8 of 17  
Print Date 03/02/2019

<b>Physical state</b>	: liquid [liquid]
<b>Color</b>	: NO PIGMENT
<b>Odor</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Boiling point</b>	: Not available.
<b>Flash point</b>	: Not available.
<b>Burning time</b>	: Not available.
<b>Burning rate</b>	: Not available.
<b>Evaporation rate</b>	: Not available.
<b>Flammability (solid, gas)</b>	: Not available.
<b>Lower and upper explosive (flammable) limits</b>	: <b>Lower:</b> Not available. <b>Upper:</b> Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Relative density</b>	: Not available.
<b>Solubility</b>	: Not available.
<b>Solubility in water</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>SADT</b>	: Not available.
<b>Viscosity</b>	: <b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.

**Section 10. Stability and reactivity**

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: Stable under recommended storage and handling conditions (see Section 7).
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Keep away from extreme heat and oxidizing agents.
<b>Incompatible materials</b>	: Keep away from strong acids. Oxidizer.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicological information**



## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 9 of 17  
Print Date 03/02/2019

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

**Information on toxicological effects**
**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
1,2,3-Propanetriol				
	LD50 Oral	Rat	12,600 mg/kg	-
<b>Remarks - Inhalation:</b>	No applicable toxicity data			
<b>Remarks - Dermal:</b>	No applicable toxicity data			
Urea				
	LD50 Oral	Rat	8,471 mg/kg	-
<b>Remarks - Inhalation:</b>	No applicable toxicity data			
<b>Remarks - Dermal:</b>	No applicable toxicity data			
Diethylene glycol				
	LD50 Oral	Rat	12,000 mg/kg	-
<b>Remarks - Inhalation:</b>	No applicable toxicity data			
	LD50 Dermal	Rabbit	11,890 mg/kg	-

**Conclusion/Summary** : Mixture.Not fully tested.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,2,3-Propanetriol					
	Skin - Mild irritant	Rabbit		24 hrs	-
	Eyes - Mild irritant	Rabbit		24 hrs	-
Urea					
	Skin - Moderate irritant	Human		24 hrs	-
	Skin - Mild irritant	Human		72 hrs	-
Diethylene glycol					
	Eyes - Mild irritant	Rabbit			-
	Skin - Mild irritant	Human		72 hrs	-
	Skin - Mild irritant	Rabbit			-

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Eyes** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 10 of 17  
Print Date 03/02/2019

**Sensitization****Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Teratogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**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** : Adverse symptoms may include the following:  
pain or irritation

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 11 of 17  
Print Date 03/02/2019

watering  
redness

**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

**Delayed and immediate effects as well as 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** : Mixture. Not fully tested.

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

**Numerical measures of toxicity**
**Acute toxicity estimates**

Route	ATE value
Oral	141,723.1 mg/kg

**Section 12. Ecological information**
**Toxicity**

Product/ingredient name	Result	Species	Exposure
1,2,3-Propanetriol			
<b>Remarks - Acute - Fish:</b>	No applicable toxicity data		

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 12 of 17  
Print Date 03/02/2019

<b>Remarks - Acute - Aquatic invertebrates.:</b>	No applicable toxicity data		
<b>Remarks - Acute - Aquatic plants:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Fish:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Aquatic invertebrates.:</b>	No applicable toxicity data		
Urea			
	Acute LC50 0.000023 Mg/l Fresh water	Fish - Fish	96 h
<b>Remarks - Acute - Fish:</b>	Acute		
	Acute EC50 6,573.1 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
<b>Remarks - Acute - Aquatic invertebrates.:</b>	Acute		
	Acute EC50 3,910 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
<b>Remarks - Acute - Aquatic invertebrates.:</b>	Acute		
<b>Remarks - Acute - Aquatic plants:</b>	No applicable toxicity data		
	Chronic NOEC 2,000 Mg/l Fresh water	Fish - Fish	30 d
<b>Remarks - Chronic - Fish:</b>	Chronic		
<b>Remarks - Chronic - Aquatic invertebrates.:</b>	No applicable toxicity data		
Diethylene glycol			
	Acute LC50 75.2 Mg/l Fresh water	Fish - Fish	96 h
<b>Remarks - Acute - Fish:</b>	Acute		
<b>Remarks - Acute - Aquatic invertebrates.:</b>	No applicable toxicity data		
<b>Remarks - Acute - Aquatic plants:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Fish:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Aquatic invertebrates.:</b>	No applicable toxicity data		

**Conclusion/Summary** : Not available.

**Persistence and degradability**

**Conclusion/Summary** : Not available.

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 13 of 17  
Print Date 03/02/2019

**Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1,2,3-Propanetriol	-1.76	-	low
Urea	-1.73	-	low
Diethylene glycol	-1.98	100.00	low

**Mobility in soil**

- Soil/water partition coefficient (KOC)** : Not available.
- Other adverse effects** : No known significant effects or critical hazards.

**Section 13. Disposal considerations**

- Disposal methods** : 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**United States - RCRA Acute hazardous waste "P" List:** Not listed

**United States - RCRA Toxic hazardous waste "U" List:** Not listed

**Section 14. Transport information**

- U.S.DOT 49CFR  
Ground/Air/Water : Not regulated for transportation.
- International Air  
ICAO/IATA : Consult mode specific transport rules

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 14 of 17  
Print Date 03/02/2019

International Water : Consult mode specific transport rules  
IMO/IMDG

**Section 15. Regulatory information**

- 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(a) - ITC Priority list:** Not listed
  - United States - TSCA 4(a) - Proposed test rules:** Not listed
  - United States - TSCA 4(f) - Priority risk review:** Not listed
  - 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) - Chemical risk rules:** Not listed
  - United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed
  - United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined
  - United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Listed Poly(dimethylsiloxane)
  - United States - TSCA 8(c) - Significant adverse reaction (SAR):** Listed Hexamethylene diisocyanate
  - United States - TSCA 8(d) - Health and safety studies:** Not listed
  - United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Listed Hexamethylene diisocyanate
  - United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed
  - 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
  - United States - Department of commerce - Precursor chemical:** Not listed
- Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Listed

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 15 of 17  
Print Date 03/02/2019

Clean Air Act Section 602 Class I Substances : Not listed  
Clean Air Act Section 602 Class II Substances : Not listed  
DEA List I Chemicals (Precursor Chemicals) : Not listed  
DEA List II Chemicals (Essential Chemicals) : Not listed

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

not applicable

**SARA 311/312**

Classification : EYE IRRITATION - Category 2A

**Composition/information on ingredients**

Name	%	Classification
Diethylene glycol	>= 5 - <= 10	EYE IRRITATION - Category 2B
Urea	>= 5 - < 10	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
1,2,3-Propanetriol	>= 1 - <= 3	EYE IRRITATION - Category 2B

**SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Miscellaneous Compounds	2-46-0	50 - 75
Supplier notification	Miscellaneous Compounds	2-46-0	50 - 75

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

Massachusetts : None of the components are listed.  
New York : None of the components are listed.  
New Jersey : The following components are listed:  
1,2,3-Propanetriol  
Pennsylvania : The following components are listed:

## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 16 of 17  
Print Date 03/02/2019

Diethylene glycol

1,2,3-Propanetriol

**California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

**United States inventory (TSCA 8b)** : All components are listed or exempted.

**Canada inventory** : All components are listed or exempted.

**International regulations**
**Inventory list**

**Australia** : Not determined.  
**Canada** : All components are listed or exempted.  
**China** : Not determined.  
**Europe inventory** : Not determined.  
**Japan** : Not determined.  
**New Zealand** : Not determined.  
**Philippines** : Not determined.  
**Republic of Korea** : Not determined.  
**Taiwan** : Not determined.  
**Turkey** : Not determined.  
**United States** : All components are listed or exempted.

**Section 16. Other information**
**Hazardous Material Information System (U.S.A.)**

<b>Health</b>	/	2
<b>Flammability</b>		0
<b>Physical hazards</b>		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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**History**

**Date of printing** : 03/02/2019



## SAFETY DATA SHEET

**XDW WB TRANSFER BASE**

Version Number 1.0  
Revision Date 02/28/2019

Page 17 of 17  
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<b>Date of issue/Date of revision</b>	:	02/28/2019
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<b>Version</b>	:	1.0
<b>Key to abbreviations</b>	:	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) UN = United Nations
<b>References</b>	:	Not available.

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