Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Eclipse Blue 46
Product code : M29616

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

No additional information available

1.3. Details of the supplier of the safety data sheet

JR Simplot Company P.O. Box 70013 Boise, ID 83707 T 1-208-336-2110

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Serious eye H320

damage/eye irritation,

Category 2B

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H320 - Causes eye irritation

Precautionary statements (GHS-US) : P264 - Wash hands, forearms and face thoroughly after handling

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical attention

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
urea (57-13-6)	(CAS No) 57-13-6		Eye Irrit. 2B, H320
1,2-propanediol	(CAS No) 57-55-6		Not classified
dimethyl sulfoxide	(CAS No) 67-68-5		Flam. Liq. 4, H227
Dicyandiamide	(CAS No) 461-58-5		Eye Irrit. 2B, H320 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1.	Description	of first aid	l measures

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).

First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.

03/28/2017 EN (English) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present First-aid measures after eye contact

and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after eye contact : Causes eye irritation.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

: Do not use a heavy water stream. Unsuitable extinguishing media

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders 6.1.2.

: Equip cleanup crew with proper protection. Protective equipment

Emergency procedures : Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away

from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

Control parameters

urea (57-13-6) (57-13-6)

Not applicable

1,2-propanediol (57-55-6)

Not applicable

03/28/2017 2/7 EN (English)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

dimethyl sulfoxide (67-68-5)

Not applicable

Dicyandiamide (461-58-5)

Not applicable

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Mixture contains one or more component(s) which have the following colour(s):

Colourless Colourless to white

Odour : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour(s):

Odourless In moist air: Ammonia odour Almost odourless Garlic odour

Odour threshold : No data available Ηα : No data available Melting point No data available Freezing point No data available No data available Boiling point No data available Flash point Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) No data available

Explosive limits : No data available
Explosive properties : No data available
Oxidising properties : No data available
Vapour pressure : No data available
Relative density : No data available
Relative vapour density at 20 °C : No data available

Solubility : Water: Solubility in water of component(s) of the mixture :

• urea (57-13-6): 100 g/100ml • 1,2-propanediol: Complete • dimethyl sulfoxide: 100

g/100ml • Dicyandiamide: 3.2 g/100ml

Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

03/28/2017 EN (English) 3/7

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Possibility of hazardous reactions

Not established.

Conditions to avoid 10.4.

Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
urea (57-13-6) (57-13-6)	
LD50 oral rat	8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 3200 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 21000 mg/kg (Rabbit; Literature study)
ATE US (oral)	8471.000 mg/kg bodyweight
1,2-propanediol (57-55-6)	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg bodyweight
ATE US (dermal)	20800.000 mg/kg bodyweight
dimethyl sulfoxide (67-68-5)	
LD50 oral rat	14500 mg/kg (Rat)
ATE US (oral)	14500.000 mg/kg bodyweight
Dicyandiamide (461-58-5)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 0.26 mg/l/4h (Rat)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after eye contact : Causes eye irritation.

SECTION 12: Ecological information

Toxicity

urea (57-13-6) (57-13-6)		
LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus; Nominal concentration)	
02/20/2017	EN (English)	4/7

03/28/2017 EN (English)

urea (57-13-6) (57-13-6)		
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Nominal concentration)	
LC50 fish 2	17500 mg/l (96 h; Poecilia reticulata)	
EC50 Daphnia 2	> 10000 mg/l (24 h; Daphnia magna)	
TLM fish 1	17500 ppm (96 h; Poecilia reticulata)	
Threshold limit other aquatic organisms 1	120000 mg/l (16 h; Bacteria; Toxicity test)	
Threshold limit other aquatic organisms 2	> 10000 mg/l (Pseudomonas putida)	
Threshold limit algae 1	> 10000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)	
Threshold limit algae 2	47 mg/l (192 h; Microcystis aeruginosa; Growth rate)	
1,2-propanediol (57-55-6)		
LC50 fish 1	51400 mg/l (96 h; Pimephales promelas)	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)	
EC50 Daphnia 1	34400 mg/l (48 h; Daphnia magna)	
LC50 fish 2	51600 mg/l (96 h; Oncorhynchus mykiss)	
TLM fish 1	> 1000 ppm (96 h; Pisces)	
TLM other aquatic organisms 1	> 1000 ppm (96 h)	
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)	
Threshold limit algae 1	15000 mg/l (336 h; Selenastrum capricornutum)	
Threshold limit algae 2	< 5300 mg/l (336 h; Skeletonema costatum)	
dimethyl sulfoxide (67-68-5)		
LC50 fish 1	32300 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	58200 mg/l (18 h; Daphnia magna)	
LC50 fish 2	33500 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	22300 mg/l (Daphnia pulex)	
TLM fish 1	33500 ppm (48 h; Lepomis macrochirus)	
Threshold limit algae 1	500 mg/l (48 h; Chlorophyta; Growth rate)	
Dicyandiamide (461-58-5)		
LC50 fish 1	7700 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water)	
EC50 Daphnia 1	3177 mg/l (48 h; Daphnia magna)	
LC50 fish 2	7900 mg/l (96 h; Pisces)	
2.2. Persistence and degradability		
Eclipse Blue 46		
Persistence and degradability	Not established.	

Eclipse Blue 46		
Persistence and degradability Not established.		
urea (57-13-6) (57-13-6)		
Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Not established.	
ThOD	0.27 g O₂/g substance	
1,2-propanediol (57-55-6)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Not established.	
Biochemical oxygen demand (BOD)	0.96 - 1.08 g O₂/g substance	
Chemical oxygen demand (COD)	1.63 g O₂/g substance	
ThOD	1.69 g O₂/g substance	
BOD (% of ThOD)	0.57 % ThOD	
dimethyl sulfoxide (67-68-5)		
Persistence and degradability	Not readily biodegradable in water. Photolysis in the air.	
Dicyandiamide (461-58-5)		
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil. Photodegradation in the air. Not established.	
BOD (% of ThOD)	0.022 % ThOD	

12.3. **Bioaccumulative potential**

Eclipse Blue 46	
Bioaccumulative potential	Not established.

03/28/2017 EN (English) 5/7

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

urea (57-13-6) (57-13-6)		
BCF fish 1	1 (72 h; Brachydanio rerio; Fresh water)	
BCF other aquatic organisms 1	11700 (Chlorella sp.)	
Log Pow	< -1.73 (Experimental value; EU Method A.8: Partition Coefficient)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	
1,2-propanediol (57-55-6)		
Log Pow	-1.410.30	
Bioaccumulative potential	Not bioaccumulative. Not established.	
dimethyl sulfoxide (67-68-5)		
BCF fish 1	< 0.4 (Cyprinus carpio; Test duration: 6 weeks)	
Log Pow	-2.03	
Bioaccumulative potential	Bioaccumulation: not applicable.	
Dicyandiamide (461-58-5)		
BCF fish 1	< 3.1 (Cyprinus carpio; Test duration: 6 weeks)	
Log Pow	-1.5 (Experimental value)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	

12.4. Mobility in soil

1,2-propanediol (57-55-6)		
	Surface tension	0.036 N/m (25 °C)

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

03/28/2017 EN (English) 6/7

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

1,2-propanediol (57-55-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

dimethyl sulfoxide (67-68-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information : None.

Full text of H-statements:

H227	Combustible liquid
H320	Causes eye irritation
H335	May cause respiratory irritation

SDS US (GHS HazCom 2012)

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03/28/2017 EN (English) 7/7