## 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 : Substance
Substance name : Eclipse Gold 46
Product code : M29623

## 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

Name : Eclipse Gold 46

Name	Product identifier	%	GHS-US classification
urea (57-13-6)	(CAS No) 57-13-6		Eye Irrit. 2B, H320
N-(n-butyl)-thiophosphonic triamide	(CAS No) 94317-64-3		Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Repr. 2, H361 STOT SE 3, H335
1,2,3-Propanetriol	(CAS No) 56-81-5		Eye Irrit. 2B, H320
dimethyl sulfoxide	(CAS No) 67-68-5		Flam. Liq. 4, H227
benzaldehyde	(CAS No) 100-52-7		Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302
Proprietary			Not classified

Full text of H-statements: see section 16

#### 3.2. Mixture

Not applicable

03/29/2017 EN (English) Page 1

## Safety Data Sheet

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

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid 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.

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.

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

and easy to do. Continue rinsing.

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

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after eye contact : Causes eye irritation.

#### 4.3. 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.

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

## 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. 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**

## 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

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

## 6.3. 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.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

#### 7.1. 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.

## 7.2. 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

## 8.1. Control parameters

03/29/2017 EN (English) 2/8

## Safety Data Sheet

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

## N-(n-butyl)-thiophosphonic triamide (94317-64-3)

Not applicable

## dimethyl sulfoxide (67-68-5)

Not applicable

#### 1,2,3-Propanetriol (56-81-5)

Not applicable

## benzaldehyde (100-52-7)

Not applicable

## **Proprietary**

Not applicable

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

Not applicable

## 8.2. Exposure controls

Relative vapour density at 20 °C

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
Appearance : Granules.

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

Colourless Light yellow to colourless On exposure to air: yellow-brown

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):
Almost odourless Garlic odour Odourless Almond odour In moist air: Ammonia odour

Odour threshold : No data available No data available Melting point No data available No data available Freezing point Boiling point : No data available : No data available Flash point Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) : No data available **Explosive limits** : No data available : No data available Explosive properties Oxidising properties : No data available Vapour pressure No data available Relative density : No data available

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

: No data available

• dimethyl sulfoxide: 100 g/100ml • 1,2,3-Propanetriol: 100 g/100ml (25 °C, Complete) •

benzaldehyde: 0.3 g/100ml • urea (57-13-6): 100 g/100ml

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

03/29/2017 EN (English) 3/8

## Safety Data Sheet

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

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.

## 10.3. Possibility of hazardous reactions

Not established.

ATE US (oral)

Carcinogenicity

Skin corrosion/irritation

Germ cell mutagenicity

Reproductive toxicity

Serious eye damage/irritation

Respiratory or skin sensitisation

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

N-(n-butyl)-thiophosphonic triamide (94317-6	N-(n-butyl)-thiophosphonic triamide (94317-64-3)		
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rat	> 2000 mg/kg		
dimethyl sulfoxide (67-68-5)			
LD50 oral rat	14500 mg/kg (Rat)		
ATE US (oral)	14500.000 mg/kg bodyweight		
1,2,3-Propanetriol (56-81-5)			
LD50 oral rat	27200 mg/kg (Rat; Experimental value)		
LC50 inhalation rat (mg/l)	> 2.75 mg/l/4h (Rat; Experimental value)		
ATE US (oral)	27200.000 mg/kg bodyweight		
benzaldehyde (100-52-7)			
LD50 oral rat	1300 mg/kg (Rat)		
LD50 dermal rat	> 1250 mg/kg (Rat)		
LD50 dermal rabbit	5000 mg/kg (Rabbit)		
ATE US (oral)	1300.000 mg/kg bodyweight		
ATE US (dermal)	5000.000 mg/kg bodyweight		
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)		

03/29/2017 EN (English) 4/8

8471.000 mg/kg bodyweight

Causes eye irritation.

: Not classified

## Safety Data Sheet

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

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**

## 12.1. Toxicity

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)

1,2,3-Propanetriol (56-81-5)		
LC50 fish 1	54000 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Lethal)	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)	
EC50 Daphnia 1	> 10000 mg/l (24 h; Daphnia magna; Locomotor effect)	
LC50 fish 2	> 1000 mg/l (96 h; Pisces)	
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	> 10000 mg/l (8 days; Scenedesmus quadricauda; Turbid water)	
Threshold limit algae 2	2900 mg/l (192 h; Microcystis aeruginosa; Toxicity test)	

benzaldehyde (100-52-7)	
LC50 fish 1	1.1 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	50 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	534 mg/l (5 h; Bacteria; Activated sludge)
LC50 fish 2	11.2 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit other aquatic organisms 1	132 mg/l (Pseudomonas putida)
Threshold limit algae 1	100 mg/l (336 h; Chlorella sp.; Inhibitory)
Threshold limit algae 2	34 mg/l (Scenedesmus quadricauda)

urea (57-13-6) (57-13-6)	
LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus; Nominal concentration)
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)

## 12.2. Persistence and degradability

Eclipse Gold 46	
Persistence and degradability	Not established.
N-(n-butyl)-thiophosphonic triamide (94317-64-3)	
Persistence and degradability	Not established.

03/29/2017 EN (English) 5/8

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

dimethyl sulfoxide (67-68-5)		
Persistence and degradability	Not readily biodegradable in water. Photolysis in the air.	
1,2,3-Propanetriol (56-81-5)		
Persistence and degradability	Readily biodegradable in water. Not established.	
Biochemical oxygen demand (BOD)	0.87 g O₂/g substance	
Chemical oxygen demand (COD)	1.16 g O₂/g substance	
ThOD	1.217 g O₂/g substance	
BOD (% of ThOD)	0.71 % ThOD	
benzaldehyde (100-52-7)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	1.62 g O₂/g substance	
Chemical oxygen demand (COD)	1.98 g O₂/g substance	
ThOD	2.42 g O₂/g substance	
BOD (% of ThOD)	0.67 % ThOD	
Proprietary		
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	

## **Bioaccumulative potential**

Eclipse Gold 46		
Bioaccumulative potential	Not established.	
N-(n-butyl)-thiophosphonic triamide (94317-64-3)		
Bioaccumulative potential	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.	
1,2,3-Propanetriol (56-81-5)		
Log Pow	-1.75 (Experimental value; Equivalent or similar to OECD 107)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	
benzaldehyde (100-52-7)		
BCF other aquatic organisms 1	4.2 - 7.8 (Estimated value)	
Log Pow	1.48 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Proprietary		
Bioaccumulative potential	Not established.	
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.	

#### 12.4. **Mobility in soil**

1,2,3-Propanetriol (56-81-5)	
Surface tension	0.0634 N/m (20 °C; 1000 g/l)
benzaldehyde (100-52-7)	
Surface tension	0.040 N/m (20 °C)

03/29/2017 EN (English) 6/8

## Safety Data Sheet

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

#### 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 except for:

Proprietary CAS No %

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

### **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

#### dimethyl sulfoxide (67-68-5)

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

## 1,2,3-Propanetriol (56-81-5)

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

03/29/2017 EN (English) 7/8

## Safety Data Sheet

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

## benzaldehyde (100-52-7)

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

## **SECTION 16: Other information**

Other information : None.

#### Full text of H-statements:

Combustible liquid
Harmful if swallowed
May cause an allergic skin reaction
Causes serious eye irritation
Causes eye irritation
May cause respiratory irritation
Suspected of damaging fertility or the unborn child

SDS US (GHS HazCom 2012)

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

03/29/2017 EN (English) 8/8