





# SAFETY DATA SHEET

**PRODUCT NAME**                      **RED RIVER 10-52-4**  
Product Code:                              NL.2105204RRS\_115\_01.1\_US  
Date of issue:                                April 2016

In case of skin contact                      May cause redness or irritation  
In case of eye contact                        May cause redness or irritation  
In case of ingestion                         Ingestion of large amounts may cause:                      gastrointestinal disturbances

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media**

Suitable extinguishing media:                      Use any suitable mean for extinguishing surrounding fire.  
Unsuitable material:                                None, but attention should be paid to compatibility with chemicals surrounding.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to the escape of toxic/corrosive gases and vapours.  
Thermal decomposition products: Nitrous oxides (NOx), nitrites, phosphorus oxides, ammonia and metallic oxides.

**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and a chemical protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Provide adequate ventilation. Wear personal protection equipment (Section 8).

**Environmental precautions**

Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

**Methods and material for containment and cleaning up**

Take up mechanically, placing in appropriate containers for disposal or recovery.

Unsuitable material for containment/taking up:                      None specified

**Other information**

None

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

Avoid generation of dust. Provide adequate ventilation. Wear personal protective equipment, when required. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

Keep/store only in original container. Store in a well-ventilated place. Keep container tightly closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

**Occupational exposure limits**

No specific occupational exposure limit for substances in the mixture.

OSHA	PEL	Not Established
	STEL/ceiling	Not Established
ACGIH (2012 TLVs® and BEIs®)		
	TWA	Not Established
	STEL/ceiling	Not Established

**Engineering controls**

Use exhaust ventilation to keep airborne concentrations below exposure limits.

**Personal Protective Equipment**

Eye/face protection                              Chemical goggles, recommended.  
Skin Protection                                    Nitrile rubber gloves, recommended.  
Respiratory Protection                         Wear respiratory protection, where airborne concentrations are expected to exceed exposure limits

**General Hygiene Considerations**

Avoid contact with eyes and skin. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance	Solid, crystalline powder
Colour	White
Odour	Odourless
Odour Threshold	No applicable
pH value	No data available
Melting point / freezing range	No data available
Boiling temperature / boiling range	Not applicable
Flash point	Not applicable
Vapourisation rate / Evaporation rate	No data available
Flammable solids	Not flammable
Explosion limits (LEL, UEL)	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative Density	No data available
Solubility	> 100 g/L at 20°C/68°F (water)
Partition coefficient n-octanol /water	Not applicable
Auto Ignition temperature (AIT)	Not applicable
Decomposition temperature	No data available
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizer

#### Other information

None

### 10. STABILITY AND REACTIVITY

#### Reactivity

No hazardous reaction when handled and stored according to provisions.

#### Chemical stability

Stable under normal storage and temperature conditions.

#### Possibility of hazardous reactions

None identified

#### Conditions to avoid

None identified

#### Incompatible materials

None identified

#### Hazardous decomposition products

Thermal decomposition products:                      Nitrous oxides (NO<sub>x</sub>), nitrites, phosphorus oxides, ammonia and metallic oxides.

### 11. TOXICOLOGICAL INFORMATION

The following information mostly refers to the major component of the product.

#### Likely routes of exposure (inhalation, ingestion, skin and eye contact)

Eye contact, skin contact and inhalation. Exposure by ingestion is not expected to occur through normal industrial or agricultural use.

#### Symptoms related to the physical, chemical and toxicological characteristics

May be irritant to the respiratory tract. May cause redness or irritation to the skin and eyes. Ingestion of large amounts may cause gastrointestinal disturbances. May cause delayed lung effects after short term exposure to thermal degradation products.

#### Information on toxicological effects from short and long term exposure

There is no data for the mixture itself.



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### Acute toxicity

Acute oral toxicity	LD50:	
Acute Toxicity Estimate for the mixture	>2000 mg/kg bw	(additivity formula)
Acute dermal toxicity	LD50:	
Acute Toxicity Estimate for the mixture	>2000 mg/kg pc	(additivity formula)
Acute inhalation toxicity	LC50:	
Acute Toxicity Estimate for the mixture	Does not contain acutely toxic ingredients/impurities.	
Assessment / classification:	Based on available data for the ingredients of the mixture, the classification criteria are not met.	

### Irritant and corrosive effects

There is no data for the mixture itself.

Irritation to the skin

The product does not contain relevant ingredients classified as corrosive or irritant to the skin in accordance with OSHA, 29 CFR 1910.1200.

Irritation to eyes

The product does not contain relevant ingredients classified as serious eye damage / eye irritant in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

### Respiratory or skin sensitisation

There is no data for the mixture itself. The product does not contain ingredients classified as a respiratory or skin sensitizer present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

### Genetic effects

The product does not contain ingredients classified as germ cell mutagens present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

### Reproductive toxicity

The product does not contain ingredients classified as a category 1 or category 2 reproductive toxicant or for effects on or via lactation present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

There is no data for the mixture itself.

The product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

### Specific target organ toxicity (repeated exposure)

There is no data for the mixture itself.

The product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

### Aspiration hazard

Physicochemical data and toxicological information does not indicate an aspiration hazard.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

### Carcinogenicity

International Agency for Research on Cancer (IARC)	No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed human carcinogen by IARC.
National Toxicology Program (NTP)	No component of this product present at levels $\geq 0.1\%$ is identified as known or anticipated carcinogen by NTP.



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29 CFR part 1910, subpart Z	No component of this product present at levels $\geq 0.1\%$ is identified as carcinogen or potential carcinogen by OSHA.
California Proposition 65	No component of this product present at levels $\geq 0.1\%$ is identified as carcinogen by California Prop.65.
WHO (2003) Nitrate in drinking water	No association between nitrate exposure in humans and the risk of cancer
Assessment / classification:	Based on available data, the classification criteria are not met.

**Other Toxicological Information**

This product contains trace amounts of naturally-occurring perchlorate and iodate. Like other goitrogenic substances, perchlorate may affect iodine uptake by thyroid under specific conditions.

## 12. ECOLOGICAL INFORMATION

There is no data for the mixture itself. The following information mostly refers to the major component of the product.

**Ecotoxicity**

**Aquatic Toxicity**

Toxicity estimate for the mixture (summation method)

96-h L(E)C50	>100 mg/L	Fish
24-h E(E)C50	>100 mg/L	<i>Daphnia magna</i> (fresh water flea).
72-h E(E)C50	> 100 mg/L	Algae

Assessment / classification                      Based on available data for the ingredients of the mixture, the classification criteria are not met.

**Persistence and degradability**

The product contains mainly inorganic nitrate and phosphate salts. In aqueous solutions, these salts dissociate into their respective ions. Phosphate ions are finally incorporated into the Phosphorus cycle. Under anoxic conditions, denitrification occurs and nitrate is ultimately converted into molecular nitrogen as part of the Nitrogen cycle.

**Bioaccumulative potential**

Low potential for bioaccumulation based on physicochemical properties of main components.

**Mobility in soil**

The components of this mixture have a low potential for adsorption. Portion not taken up by plants, can leach to groundwater.

**Other adverse effects**

Excess nitrate leaching may enrich waters leading to eutrophication.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable federal and state laws.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

This product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

## 14. TRANSPORTATION INFORMATION

**US DOT (49CFR part 172)**

UN-No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	No
Special Provision	No

**International Maritime Organization (IMDG Code)**

UN-No.	Non dangerous good
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Marine pollutant	No



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Hazard label(s)                    Not applicable  
Special marking                    No  
**International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA)**  
UN-No.                                Non dangerous good  
UN Proper Shipping Name                    Not applicable  
Hazard class                        Not applicable  
Packing group                      Not applicable  
Hazard label                        Not applicable  
Special marking                      No  
**Special handling procedure**  
None  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable  
**Other special precautions**  
None

## 15. REGULATORY INFORMATION

### US Federal

#### SARA Title III Rules

##### Section 311/312 Hazard Classes

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Release of Pressure	No
Reactive Hazard	No

#### Section 313 Toxic Chemicals

NS11 Nitrate compounds (water dissociable; reportable only when in aqueous solution)

#### Section 302 Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances

None ingredient is listed.

#### NFPA 704/2012: National Fire Protection Association

Health	1
Fire	0
Reactivity	0
Special	None

### US State Regulations

California Proposition 65                    None ingredient is listed.

### Canada

This product has been classified according to the hazard criteria of the 2015 Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

### Chemical Inventories

United States TSCA	All ingredients are listed
Canada DSL	All ingredients are listed
European Union (EINECS)	All ingredients are listed
Japan (METI)	All ingredients are listed

## 16. OTHER INFORMATION

This SDS complies with 29 CFR part 1910 subpart Z (2012), Hazardous Products Regulations (HPR, 2015) and ANSI Standard Z400.1-2004

<b>Data source</b>	REACH Registration Dossiers for major components
<b>Prepared by</b>	Regulatory Affairs Department, SQM
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