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

SECTION 1: Identification	
1.1. Identification	
	Mixture
Product name	Potassium Nitrate (13-0-46)
Product code	: M74050
	nce or mixture and uses advised against
No additional information available	
1.3. Details of the supplier of the safety da	ata 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 mix	ture
GHS-US classification	
Serious eye H320	
damage/eye irritation, Category 2B	
Oxidising Solids, H272	
Category 2	
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	GHS03
Signal word (GHS-US)	: Danger
c ()	: H272 - May intensify fire; oxidiser
	H320 - Causes eye irritation
	 P210 - Keep away from heat/sparks/open flames/hot surfaces P220 - Keep/Store away from clothing//combustible materials P221 - Take any precaution to avoid mixing with combustibles/ P264 - Wash hands, forearms and face thoroughly after handling P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P370+P378 - In case of fire: Use media other than water to extinguish P501 - Dispose of contents/container to
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	
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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name		Product identifier	%	GHS-US classification
potassium nitrate		(CAS No) 7757-79-1		Eye Irrit. 2B, H320
Full text of H-statements: see section 16		I	l	1
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		r give anything by mouth to an unconscience (show the label where possible).	ous person. If yo	ou feel unwell, seek medical
First-aid measures after inhalation	: Allow	breathing of fresh air. Allow the victim to	rest.	
First-aid measures after skin contact		ove affected clothing and wash all exposi- arm water rinse.	ed skin area wit	h mild soap and water, followed
First-aid measures after eye contact	persis			
First-aid measures after ingestion		e mouth. Do NOT induce vomiting. Obtain	n emergency me	edical attention.
4.2. Most important symptoms and e				d and difference of a survey of the survey o
Symptoms/injuries		xpected to present a significant hazard u	nder anticipated	a conditions of normal use.
4.3. Indication of any immediate med	ical attentio	n and special treatment needed		
No additional information available				
SECTION 5: Firefighting measure	5			
5.1. Extinguishing media			_	
Suitable extinguishing media		h. Dry powder. Carbon dioxide. Water spi	ay. Sand.	
Unsuitable extinguishing media	: Do no	ot use a heavy water stream.		
5.2. Special hazards arising from the	substance of	or mixture		
No additional information available				
5.3. Advice for firefighters				
Firefighting instructions		vater spray or fog for cooling exposed co ical fire. Prevent fire-fighting water from		
Protection during firefighting	: Do no	ot enter fire area without proper protectiv	e equipment, in	cluding respiratory protection.
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective	equipment	and emergency procedures		
6.1.1. For non-emergency personnel				
Emergency procedures	: Evacı	uate unnecessary personnel.		
6.1.2. For emergency responders				
Protective equipment	: Equip	cleanup crew with proper protection.		
Emergency procedures	: Ventil	ate area.		
6.2. Environmental precautions				
Prevent entry to sewers and public waters. N	otify authoriti	es if liquid enters sewers or public water	S.	
· ·	-			
6.3. Methods and material for contain	ment and cl			
	: On la		iers. Minimize g	eneration of dust. Store away
Methods for cleaning up	: On la	leaning up nd, sweep or shovel into suitable contair	ers. Minimize g	eneration of dust. Store away
Methods for cleaning up 6.4. Reference to other sections	: On la from o	leaning up nd, sweep or shovel into suitable contair other materials.	ers. Minimize g	eneration of dust. Store away
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and perso	: On la from on a from of from of from of from of the	leaning up nd, sweep or shovel into suitable contair other materials.	iers. Minimize g	eneration of dust. Store away
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and perso SECTION 7: Handling and storage	: On la from on a from of from of from of from of the	leaning up nd, sweep or shovel into suitable contair other materials.	ers. Minimize g	eneration of dust. Store away
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and perso SECTION 7: Handling and storage 7.1. Precautions for safe handling	: On la from o nal protection : Wash	leaning up nd, sweep or shovel into suitable contair other materials. n. hands and other exposed areas with mi ing and when leaving work. Provide good	ld soap and wa	ter before eating, drinking or
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and perso SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	: On la from of nal protection : Wash smok of vap	leaning up nd, sweep or shovel into suitable contair other materials. n. hands and other exposed areas with mi ing and when leaving work. Provide good	ld soap and wa	ter before eating, drinking or
Methods for cleaning up 6.4. Reference to other sections See Heading 8. Exposure controls and perso SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	: On la from of nal protection : Wash smok of vap uding any in : Keep	leaning up nd, sweep or shovel into suitable contair other materials. n. hands and other exposed areas with mi ing and when leaving work. Provide good	ld soap and wa	ter before eating, drinking or process area to prevent formation

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

Incompatible materials

: Sources of ignition. Direct sunlight.

Incompatible materials	: Sources of ignition. Direct sunlight.
SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
potassium nitrate (7757-79-1)	
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 chemica	properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: White solid.
Colour	: White
Odour	: characteristic
Odour threshold	: No data available
рН	: No data available
Melting point	: 333.9 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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
Density	: 78 lbs/ft^3
Solubility	 Water: Solubility in water of component(s) of the mixture : • potassium nitrate: 32 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 reactivit	y .
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions. Not establishe	

Safety Data Sheet

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

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Potassium nitrate is an oxidizer and may burn vigorously or explode when mixed with combustible materials and ignited. Strong acids. Strong bases.

10.6. Hazardous decomposition products

When involved in a fire, decomposes to form hazardous gasous oxides of nitrogen. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Potassium Nitrate (13-0-46)	
LD50 oral rat	1900 - 3750
LD50 dermal rat	< 5000
ATE US (oral)	1900.000 mg/kg bodyweight
potassium nitrate (7757-79-1)	
LD50 oral rat	3750 mg/kg (Rat)
LD50 dermal rat	> 5000 mg/kg
ATE US (oral)	3750.000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
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.

SECTION 12: Ecological information

12.1. Toxicity

potassium nitrate (7757-79-1)	
LC50 fish 1	162 mg/l (96 h; Pisces; Lethal)
LC50 other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
EC50 other aquatic organisms 1	200 - 1000 mg/l (Plankton; Nocivity test)
LC50 fish 2	1378 mg/l (Poecilia reticulata)
LC50 other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)
TLM fish 1	3000 mg/l (96 h; Lepomis macrochirus)
TLM fish 2	162 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
Threshold limit other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)
12.2. Persistence and degradability	
Potassium Nitrate (13-0-46)	

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

potassium nitrate (7757-79-1)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
2.3. Bioaccumulative potential	
Potassium Nitrate (13-0-46)	
Bioaccumulative potential	Not established.
potassium nitrate (7757-79-1)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
2.4. Mobility in soil	
lo additional information available	
2.5. Other adverse effects	
ffect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	IS
3.1. Waste treatment methods	
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
cology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	
n accordance with DOT	UN1496 Detaccium nitrata 5.1 III
ransport document description	: UN1486 Potassium nitrate, 5.1, III
IN-No.(DOT)	: UN1486
roper Shipping Name (DOT)	: Potassium nitrate
Class (DOT)	: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
lazard labels (DOT)	: 5.1 - Oxidiser
	5.1
	: III - Minor Danger
acking group (DOT)	
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
'acking group (DOT) OT Packaging Non Bulk (49 CFR 173.xxx) OT Packaging Bulk (49 CFR 173.xxx)	-

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

,		
DOT Special Provisions (49 CFR 172.102)	:	A1 - Single packagings are not permitted on passenger aircraft A29 - Combination packagings consisting of outer expanded plastic boxes with inner plastic bags are not authorized for transportation by aircraft IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H1, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2) IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	152
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	100 kg
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
Other information	:	No supplementary information available.

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
Potassium Nitrate (13-0-46)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
potassium nitrate (7757-79-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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

potassium nitrate (7757-79-1)		
U.S New Jersey - Right to Know Hazar	dous Substance List	
SECTION 16: Other information		
SECTION 16. Other information		
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information	: None.	
Full text of H-statements:		
H272	May intensify fire; oxidiser	
H320	Causes eye irritation	

SDS US (GHS HazCom 2012)

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