



6-24-24XBTM +

GUARANTEED ANALYSIS:

TOTAL NITROGEN (N)	6.00%
6.00% Ammoniacal Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)	24.00%
SOLUBLE POTASH (K ₂ O)	24.00%
Sulfur (S)	5.00%
Iron (Fe)	1.50%
Derived from Ammonium Sulfate, Monoammonium Phosphate, Sulfate of Potash, Muriate of Potash and Iron Oxysulfate.	



KEEP OUT OF REACH OF CHILDREN

WARNING

CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION.

PRECAUTIONARY STATEMENTS: Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Call a poison center / doctor if you feel unwell.
FIRST AID: IF INHALED Remove person to fresh air and keep comfortable for breathing. 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 advice / attention.
STORAGE AND DISPOSAL: **STORAGE** Store in a well-ventilated place. Keep container tightly closed. Store locked up. **DISPOSAL** Dispose of contents / container in accordance with local / regional / national regulations.

BENEFITS: BEST 6-24-24 XB+

- Is a dust-free, homogeneous pellet (homogeneous pellet means that all of the pellets have the exact same analysis).
- Is an excellent formulation for use as a pre-plant fertilizer for turf, ornamentals, vegetable gardens or to prepare turf and ornamentals for the stresses of winter.
- Is a beneficial supplement fertilizer for soils low in Phosphate and Potash.

DIRECTIONS FOR USE

CAUTION: THE IRON IN THIS PRODUCT MAY STAIN CONCRETE AND PLASTER SURFACES. CLEAN THESE AREAS AFTER APPLICATION AND PRIOR TO IRRIGATION. DO NOT CONTAMINATE POTABLE WATER. Never apply fertilizer to dry soils. On ornamentals, plant food should always be applied to moist soils and watered in immediately and thoroughly. In Turf soil should be moist but grass blades should be dry. Water immediately after application.

APPLICATION RATES:

	Pounds of Actual P ₂ O ₅ & K ₂ O desired per 1,000 sq. ft.	Pounds of BEST 6-24-24 XB+ to apply per 1,000 sq. ft.	Pounds of BEST 6-24-24 XB+ to apply per Acre	Lbs. of Actual Nitrogen Applied per 1,000 sq. ft.
Turfgrass:	1.5	6.25	272	0.38
Recommended Rate	2.0	8.33*	363*	0.50*
	3.0	12.50	545	0.75

Application at the recommended rates will last approximately 4 - 5 weeks.

TURFGRASS OVERSEEDING: Broadcast 8.33 lbs. per 1,000 sq. ft. (363 lbs. per acre)

PREPLANT: Clay Soils - Broadcast 12.5 lbs. per 1,000 sq. ft. (545 lbs. per acre)

Loam Soils - Broadcast 15 lbs. per 1,000 sq. ft. (653 lbs. per acre)

Sandy Soils - Broadcast 25 lbs. per 1,000 sq. ft. (1,089 lbs. per acre)

NURSERY CONTAINER SOIL MIX: Add 1 lb. 6-24-24 XB+ to each cubic yard of soil and mix well.

NOTE: Liquid measuring cups are very close in estimating the weight of dry granular fertilizers. Example: an 8 oz. (1 cup) measuring cup holds approximately 8 oz. (1/2 lb.) of dry granular fertilizer.

SPREADER SETTINGS:

Listed Settings Will
Apply Approximately the
Recommended Rate.

Rates are for spreading one
line across in one direction



SGN 250

	12.5# / 1000 sq. ft.	8.3# / 1000 sq. ft.	6.25# / 1000 sq. ft.
BEST® Pro	7 1/2	6 1/2	5 1/2
Spyker / BEST® Models 34, 44, 64	6	5.8	5.2
Earthway	26	22	18
Lesco	24	21	18
Scotts R-8A (Cone 5)			M
Lely 1250 / Vicon			

visit www.bestfertilizer.com

NOTE: Spreader settings are guidelines only. Spreaders should be checked for accuracy.

FRUIT, NUT, AVOCADO AND CITRUS TREES:

Make first feeding in the late winter or early spring after new growth starts. Second feeding should be made about the first of summer; the third in late summer. Apply 1/2 lb. per 3 ft. of height to a maximum of 4 lbs. per tree. (For dwarf or bush citrus, follow recommendations for roses and shrubs).

FLOWERS AND VEGETABLES:

As a side dressing, evenly spread 1 lb. down each 100 ft. of row. For individual plantings, apply 2 level tablespoons per plant and flood irrigate basin. For group plantings, evenly broadcast 1/2 lb. per 100 sq. ft. of cultivated area. **WATER THOROUGHLY AFTER APPLICATION.**

ROSES, FLOWERING SHRUBS AND EVERGREENS:

Water well the day before feeding. Sprinkle 1/4 cup evenly around base of plant and work lightly into top 1 inch of soil. Water thoroughly. Use every six weeks throughout growing season. New Plantings: Work 1/4 cup into soil at bottom of hole before planting. **WATER THOROUGHLY.**

HORTICULTURAL NOTE:

This plant food should be distributed evenly under branches of the plant out to the dripline. Cultivate lightly into soil except in lawn areas. For CONTAINER PLANTINGS such as redwood tubs, use 1/2 recommended rate. **WATER THOROUGHLY AFTER APPLICATION.**

GROUND COVER PLANTS:

Broadcast 5 lbs. per 500 sq. ft. of planting area. Repeat every 6 to 8 weeks throughout growing season. Wash pellets off foliage. **WATER THOROUGHLY AFTER APPLICATION.**

SHADE TREES:

Make first feeding in early spring when growth starts. Follow-up feedings should be made approximately at the beginning and at the end of summer. Apply 1/2 lb. per 1 inch of trunk diameter.

PRODUCT COVERAGE:

ONE 50 LB. BAG COVERS 4,000 - 8,000 SQ. FT.

5 1/2 - 11 BAGS COVER ONE ACRE

APPLICATION PRECAUTIONS:

- Apply to dry turf or foliage and irrigate thoroughly immediately after application.
- The iron in BEST 6-24-24 XB+ is a part of a homogeneous pellet which virtually eliminates the possibility of staining concrete. Sweep or blow walkways prior to irrigation. Walkways should be dry at time of application.
- Keep away from pools, ponds, etc. Do not contaminate potable water.

Warning: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Proposition 65, the Safe Drinking Water and Toxic Enforcement Act of 1986, requires notification of potential exposure to substances identified by the State of California as causing cancer, birth defects or other reproductive harm.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.regulatory-info-jr.com>

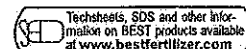
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BEST® is a registered trademark of J.R. Simplot Company. XBTM is a trademark of J.R. Simplot.

ITEM# 74089_GHS_R10-13-14



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Professional Products
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Customer Service 800-992-6066

6-24-24 XB+

Safety Data Sheet

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

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : 6-24-24 XB+
Product code : M74089

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

1.3. Details of the supplier of the safety data sheet

JR Simplot Company
Boise, ID 83707
T 1-208-336-2110

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Eye Irrit. 2B H320
STOT SE 3 H335

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

: H320 - Causes eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-US)

: P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash ... thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a poison center/doctor/... if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to ... specify in accordance with local/regional/national regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product Identifier	%	Classification (GHS-US)
ammonium sulfate	(CAS No) 7783-20-2		Eye Irrit. 2B, H320 STOT SE 3, H335
Iron Oxysulfate			Eye Irrit. 2B, H320
potassium chloride	(CAS No) 7447-40-7		Not classified
Monoammonium Phosphate	(CAS No) 7722-76-1		Eye Irrit. 2B, H320 STOT SE 3, H335
Sand			STOT SE 3, H335
potassium sulfate	(CAS No) 7778-80-5		Not classified
Wax	(CAS No) 64771-72-8		Not classified

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 : Assure fresh air breathing. 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 : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- 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 : Not expected to present a significant hazard under anticipated conditions of normal use.

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

- Reactivity : Stable.

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.

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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 vapor.

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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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

Appearance : Gray granules.

Color : Gray

Odor : characteristic

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : °C Non-flammable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : No data available

Solubility : Water: Solubility in water of component(s) of the mixture :
•: 77 g/100ml •: 38 g/100ml •: 34 g/100ml •: 11 g/100ml

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable.

10.2. Chemical stability

Stable. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high temperatures. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Oxidizing agent. Prolonged contact may cause oxidation of unprotected metals. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Extremely high temperatures. The product may reach melting point and decompose to release NH₃, SO_x, PO_x, or CN. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

ammonium sulfate (7783-20-2)

LD50 oral rat	2840 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	2840.00000000 mg/kg body weight

Monoammonium Phosphate (7722-76-1)

LD50 oral rat	5750 mg/kg (Rat)
LD50 dermal rat	> mg/kg
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
ATE US (oral)	5750.00000000 mg/kg body weight

potassium chloride (7447-40-7)

LD50 oral rat	2600 mg/kg (Rat)
ATE US (oral)	2600.00000000 mg/kg body weight

potassium sulfate (7778-80-5)

LD50 oral rat	6600 mg/kg (Rat)
ATE US (oral)	6600.00000000 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: 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)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

12.1. Toxicity

ammonium sulfate (7783-20-2)	
LC50 fish 1	126 mg/l (96 h; <i>Poecilia reticulata</i>)
EC50 Daphnia 1	202 mg/l (96 h; <i>Daphnia magna</i>)
LC50 fish 2	250 - 480 mg/l (96 h; <i>Brachydanio rerio</i>)
EC50 Daphnia 2	433 mg/l (50 h; <i>Daphnia magna</i>)
TLM fish 1	1290 ppm (96 h; <i>Gambusia affinis</i>)

Monoammonium Phosphate (7722-76-1)	
LC50 fish 1	155 ppm (96 h; <i>Pimephales promelas</i>)

potassium chloride (7447-40-7)	
LC50 fish 1	920 mg/l (96 h; <i>Gambusia affinis</i> ; Static system)
EC50 Daphnia 1	630 mg/l (48 h; <i>Ceriodaphnia dubia</i>)
LC50 fish 2	2010 mg/l (96 h; <i>Lepomis macrochirus</i> ; Static system)
EC50 Daphnia 2	660 mg/l (48 h; <i>Daphnia magna</i>)
Threshold limit algae 1	850 mg/l (72 h; <i>Scenedesmus subspicatus</i>)
Threshold limit algae 2	> 100 mg/l (72 h; <i>Scenedesmus subspicatus</i> ; GLP)

potassium sulfate (7778-80-5)	
LC50 fish 1	1692.4 mg/l (96 h; <i>Alburnus alburnus</i>)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
EC50 Daphnia 1	890 mg/l (48 h; <i>Daphnia magna</i> ; Static system)
LC50 fish 2	653 - 796 mg/l (96 h; <i>Lepomis macrochirus</i>)
EC50 Daphnia 2	1180 mg/l (96 h; Crustacea)
TLM fish 1	3550 ppm (96 h; <i>Lepomis sp.</i>)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	2900 mg/l (72 h; <i>Scenedesmus subspicatus</i>)

12.2. Persistence and degradability

6-24-24 XB+	
Persistence and degradability	Not established.

ammonium sulfate (7783-20-2)	
Persistence and degradability	Biodegradability in water: no data available. Not established.

Monoammonium Phosphate (7722-76-1)	
Persistence and degradability	Biodegradability in water: no data available. Not established.

Iron Oxysulfate	
Persistence and degradability	Not established.

potassium chloride (7447-40-7)	
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

potassium sulfate (7778-80-5)	
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

Sand	
Persistence and degradability	Not established.

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Wax (64771-72-8)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
6-24-24 XB+	
Bioaccumulative potential	Not established.
ammonium sulfate (7783-20-2)	
Log Pow	-5.1
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
Monoammonium Phosphate (7722-76-1)	
Bioaccumulative potential	Not bioaccumulative. Not established.
Iron Oxsulfate	
Bioaccumulative potential	Not established.
potassium chloride (7447-40-7)	
Log Pow	-0.46 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
potassium sulfate (7778-80-5)	
Bioaccumulative potential	Not bioaccumulative. Not established.
Sand	
Bioaccumulative potential	Not established.
Wax (64771-72-8)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

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

In accordance with DOT

Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

Transport document description :

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 on the Toxic Substances Control Act (TSCA) inventory except for:

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Iron Oxysulfate	CAS No	C>=15.00% ; C<=30.00%
Sand	CAS No	C>=1.00% ; C<=10.00%

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.

Iron Oxysulfate
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
Sand
Not 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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. 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 and/or reproductive harm

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, labeling 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-phrases: see section 16:

Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H320	Causes eye irritation
H335	May cause respiratory irritation

SDS US (GHS HazCom 2012)

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