

SAFETY DATA SHEET

1. Identification

Product identifier NitreBlue (TM) Bluing Salts, 10 lbs.

Other means of identification

Product code 082-090-019

Recommended use Metal finishing

Recommended restrictions Not available.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name BROWNELLS, INC.
Address 200 South Front Street
Montezuma, Iowa 50171
United States

Telephone (641) 623-5401

E-mail Not available.

Emergency phone number INFOTRAC Registrant #79335

24 hour Emergency Number, Domestic: (800) 457-4280
24 hour Emergency Number, Foreign: +1(352) 323-3500

2. Hazard(s) identification

Physical hazards Oxidizing solids Category 3

Health hazards Acute toxicity, oral Category 3

Acute toxicity, inhalation Category 1

Serious eye damage/eye irritation Category 2A

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 3

Hazardous to the aquatic environment, long-term hazard Category 3

OSHA defined hazards Not available.

Label elements



Signal word Danger

Hazard statement May intensify fire; oxidizer. Toxic if swallowed. Toxic if inhaled. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Observe good industrial hygiene practices. Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Do not get in eyes, on skin, or on clothing. Wear protective gloves/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response In case of fire: Use appropriate media to extinguish. If swallowed: Immediately call a poison center/doctor. Rinse mouth. Specific treatment (see this label). If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). 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 Store locked up. Store in a well-ventilated place. Store in a cool, dry place away from incompatible materials. Keep container tightly closed.

Disposal Dispose of in accordance with current, applicable local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC)

Not available.

Hazard(s) not otherwise classified (HNOC) Not available.

Supplemental information 13.25% of the mixture consists of component(s) of unknown acute oral toxicity. 44.25% of the mixture consists of component(s) of unknown acute inhalation toxicity. 1.75% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 1.75% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
POTASSIUM NITRATE		7757-79-1	25 - < 60
SODIUM NITRITE		7632-00-0	25 - < 60
SODIUM NITRATE		7631-99-4	1 - < 2.5
Other components below reportable levels			10 - < 20

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor.

Skin contact Remove contaminated clothing. Immediately wash off with plenty of soap and water. Wash contaminated clothing before reuse.

Eye contact Keep eye wide open while rinsing. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub eyes. Get medical attention immediately.

Ingestion Give victim two glasses of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth thoroughly. Do not induce vomiting. Get medical attention immediately.

Most important symptoms/effects, acute and delayed Gastrointestinal discomfort. Moderate eye irritation. Eye damage. Inhalation of dust may cause shortness of breath, cough, sore throat, or tightness of the chest. Dusts may irritate the respiratory tract, skin and eyes.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation.

General information Contact with combustible material may cause fire. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Carbon dioxide (CO2). Dry chemical. Foam. Water Spray or Fog.

Unsuitable extinguishing media Not available.

Specific hazards arising from the chemical When a material is contaminated with the product, the material ignites easily and burns vigorously. Product is an oxidizer and promotes combustion. Run off water may cause environmental damage.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and NIOSH approved self-contained breathing apparatus (SCBA).

Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products	Nitrogen oxides (NOx).
General fire hazards	May cause fire or explosion; strong oxidizer. Contact with combustible material may cause fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Keep unnecessary personnel away. Keep away from clothing and other combustible materials. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Avoid contact with skin, eyes, and clothes. Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the Safety Data Sheet for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Surfaces may become slippery after spillage.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Avoid the generation of dusts during clean-up. Clean up in accordance with all applicable regulations. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Clean surface thoroughly to remove residual contamination. Large Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Avoid the generation of dusts during clean-up.
Environmental precautions	Avoid release to the environment. Avoid discharge into drains, waterways, sewers, or onto the ground. Runoff from fire control or dilution water may cause pollution. Do not contaminate water.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Observe good industrial hygiene practices. Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. See Section 8 of the safety data sheet (SDS) for Personal Protective Equipment. Do not ingest. Do not eat, drink or smoke when using the product. Wash hands thoroughly after handling. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in a well-ventilated place. Store in a cool, dry place away from incompatible materials. See Section 10 of the SDS for incompatible materials. Keep container tightly closed.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Avoid contact with eyes. Wear chemical goggles and face shield.
Skin protection	
Hand protection	Wear protective gloves.
Other	Avoid contact with skin and clothing. Wear suitable protective clothing with long sleeves.

Respiratory protection	Wear respirator with dust filter. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using, do not eat, drink or smoke. Keep away from food and drink. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Powder.
Color	Pink.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	297 °F (147.22 °C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	< 1.4 at 59 degrees Fahrenheit
Solubility(ies)	
Solubility (water)	Soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal temperature conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Prevent contamination or contact with secondary amines. Excessive heat. Contact with incompatible materials.
Incompatible materials	Combustible material. Cyanides. Strong reducing agents. When sodium nitrite in the presence of secondary amines may form carcinogenic and hazardous nitrosamines.
Hazardous decomposition products	Nitrogen oxides (NOx).

11. Toxicological information

Information on likely routes of exposure

Inhalation	Do not breathe dust/fume/gas/mist/vapors/spray. Toxic if inhaled. Inhalation of dust may cause shortness of breath, cough, sore throat, or tightness of the chest. Dusts may irritate the respiratory tract.
Skin contact	Do not get this material in contact with skin. Dust or powder may irritate the skin.
Eye contact	Do not get this material in contact with eyes. Causes serious eye damage. Moderate eye irritation. Dust may irritate the eyes.
Ingestion	Do not swallow or taste. Toxic if swallowed. Gastrointestinal discomfort

Symptoms related to the physical, chemical and toxicological characteristics Gastrointestinal discomfort. Moderate eye irritation. Eye damage. Inhalation of dust may cause shortness of breath, cough, sore throat, or tightness of the chest. Dusts may irritate the respiratory tract, skin and eyes.

Information on toxicological effects

Acute toxicity Toxic if swallowed. Toxic if inhaled. Causes serious eye damage.

Skin corrosion/irritation Dust or powder may irritate the skin.

Serious eye damage/eye irritation Moderately irritating to the eyes. Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity Not available.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicity Not available.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

Chronic effects May cause damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Due to water solubility, will likely be mobile in the environment.

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose of in accordance with current, applicable local, state, and federal regulations.

Waste from residues / unused products Not available.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN3087

UN proper shipping name Oxidizing Solid, Toxic, N.O.S. (POTASSIUM NITRATE, SODIUM NITRITE)

Transport hazard class(es)

Class 5.1

Subsidiary risk 6.1
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
ERG number 141

IATA

UN number UN3087
UN proper shipping name Oxidizing Solid, Toxic, N.O.S. (POTASSIUM NITRATE, SODIUM NITRITE)
Transport hazard class(es)
Class 5.1
Subsidiary risk 6.1
Packing group III
Environmental hazards No.
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo aircraft Allowed.
Cargo aircraft only Allowed.

IMDG

UN number UN3087
UN proper shipping name Oxidizing Solid, Toxic, N.O.S. (POTASSIUM NITRATE, SODIUM NITRITE)
Transport hazard class(es)
Class 5.1
Subsidiary risk 6.1
Packing group III
Environmental hazards
Marine pollutant No.
EmS Not available.
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

DOT



IATA; IMDG



15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.		
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)			
SODIUM NITRITE (CAS 7632-00-0)	1.0 % One-Time Export Notification only.		
CERCLA Hazardous Substance List (40 CFR 302.4)			
SODIUM NITRITE (CAS 7632-00-0)	Listed.		
SARA 304 Emergency release notification	Not regulated.		
Superfund Amendments and Reauthorization Act of 1986 (SARA)			
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazardous substance	Not listed.		
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemical name	CAS number	% by wt.	
POTASSIUM NITRATE	7757-79-1	25 - < 60	
SODIUM NITRITE	7632-00-0	25 - < 60	
SODIUM NITRATE	7631-99-4	1 - < 2.5	
Other federal regulations			
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.		
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.		
US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)	Not listed.		
US. Massachusetts RTK - Substance List	POTASSIUM NITRATE (CAS 7757-79-1) SODIUM NITRATE (CAS 7631-99-4) SODIUM NITRITE (CAS 7632-00-0)		
US. New Jersey Worker and Community Right-to-Know Act	POTASSIUM NITRATE (CAS 7757-79-1) SODIUM NITRATE (CAS 7631-99-4) SODIUM NITRITE (CAS 7632-00-0)		
US. Pennsylvania Worker and Community Right-to-Know Law	POTASSIUM NITRATE (CAS 7757-79-1) SODIUM NITRATE (CAS 7631-99-4) SODIUM NITRITE (CAS 7632-00-0)		
US. Rhode Island RTK	POTASSIUM NITRATE (CAS 7757-79-1) SODIUM NITRATE (CAS 7631-99-4)		
US. California Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.		

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 11-07-2017

Version # 01

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Information This document has undergone significant changes and should be reviewed in its entirety.