

## Safety Data Sheet

### KB-1200

Safety Data Sheet dated: 5/14/2015 - version 1

Date of first edition: 5/14/2015

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: KB-1200

### Recommended use of the chemical and restrictions on use

Recommended use: Admixture for concrete

Restrictions on use: N.A.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: General Resource Technology

2978 Center Court - 55121 - Eagan - MN - USA

### Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Eye Irrit. 2A Causes serious eye irritation.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

### Label elements

#### Symbols:



Warning

Code	Description
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H319	Causes serious eye irritation.
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H373.G	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
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Code	Description
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P260.1	Do not breathe mist/vapours/spray.
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P264.1	Wash hands thoroughly after handling.
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P280	Wear protective gloves/protective clothing/eye protection/face protection.
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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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P314	Get medical advice/attention if you feel unwell.
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P337+P313	If eye irritation persists: Get medical advice/attention.
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P501.A	Dispose of contents/container in accordance with applicable regulations.
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### Ingredient(s) with unknown acute toxicity:

None

### Hazards not otherwise classified identified during the classification process:

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

N.A.

### Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

#### List of components

Quantity	Name	Ident. Numb.	Classification
10-20 %	SODIUM NITRATE	CAS:7631-99-4	Eye Irrit. 2A, H319; Ox. Sol. 3, H272
5-10 %	TRIETHANOLAMINE	CAS:102-71-6	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT RE 2, H373
1-5 %	SODIUM THIOCYANATE	CAS:540-72-7	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2A, H319; Aquatic Chronic 3, H412

## 4. FIRST AID MEASURES

### Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

### Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

### Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

### Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
TRIETHANOLAMINE	ACGIH			5					eye and skin irritation;

Appropriate engineering controls: N.A.

### Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: dark brown

Odour: N.A.

Odour threshold: N.A.

pH: 8.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: N.A.

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.26 g/cm3

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

### Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Fat Solubility: N.A.

Conductivity: N.A.

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## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

#### Chemical stability

Data not Available.

#### Possibility of hazardous reactions

None.

#### Conditions to avoid

Stable under normal conditions.

#### Incompatible materials

None in particular.

#### Hazardous decomposition products

None.

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

SODIUM NITRATE	a) acute toxicity	LD50 Oral Rat = 1267mg/kg
TRIETHANOLAMINE	a) acute toxicity	LD50 Skin Rabbit > 20ml/kg LD50 Oral Rat = 4190mg/kg
SODIUM THIOCYANATE	a) acute toxicity	LD50 Oral Rat = 764mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

#### Substance(s) listed on the IARC Monographs:

TRIETHANOLAMINE	Group 3
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#### Substance(s) listed as OSHA Carcinogen(s):

None

#### Substance(s) listed as NIOSH Carcinogen(s):

None

#### Substance(s) listed on the NTP report on Carcinogens:

None

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## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
10-20 %	SODIUM NITRATE	CAS: 7631-99-4	LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus= 2000mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss9944mg/L 96h EPA
5-10 %	TRIETHANOLAMINE	CAS: 102-71-6	LC50 a) Aquatic acute toxicity Fish Pimephales promelas10600mg/L 96h EPA LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus450mg/L 96h IUCLID

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

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**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

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**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**UN number**

ADR-UN number: N.A.

DOT - UN Number: N.A.

IATA-Un number: N.A.

IMDG-Un number: N.A.

**UN proper shipping name****Transport hazard class(es)**

ADR-Class: N.A.

DOT - Hazard Class: N.A.

IATA-Class: N.A.

IMDG-Class: N.A.

**Packing group**

ADR-Packing Group: N.A.

DOT-Packing group: N.A.

IATA-Packing group: N.A.

IMDG-Packing group: N.A.

**Environmental hazards**

Marine pollutant: No

Environmental Pollutant: N.A.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

N.A.

**Special precautions**

Department of Transportation (DOT):

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

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**15. REGULATORY INFORMATION****USA - Federal regulations****TSCA - Toxic Substances Control Act****TSCA inventory:**

All the components are listed on the TSCA inventory

**TSCA listed substances:**

SODIUM NITRATE	is listed in TSCA	Section 8b
TRIETHANOLAMINE	is listed in TSCA	Section 8b

**SARA - Superfund Amendments and Reauthorization Act****Section 302 - Extremely Hazardous Substances:**

no substances listed

**Section 304 - Hazardous substances:**

no substances listed

**Section 313 - Toxic chemical list:**

no substances listed

**CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act****Substance(s) listed under CERCLA:**

no substances listed

**CAA - Clean Air Act****CAA listed substances:**

TRIETHANOLAMINE

is listed in CAA

Section 112(b) - HON

**CWA - Clean Water Act****CWA listed substances:**

no substances listed

**USA - State specific regulations****California Proposition 65****Substance(s) listed under California Proposition 65:**

no substances listed

**Massachusetts Right to know****Substance(s) listed under Massachusetts Right to know:**

SODIUM NITRATE

TRIETHANOLAMINE

**Pennsylvania Right to know****Substance(s) listed under Pennsylvania Right to know:**

SODIUM NITRATE

TRIETHANOLAMINE

**New Jersey Right to know****Substance(s) listed under New Jersey Right to know:**

TRIETHANOLAMINE

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**16. OTHER INFORMATION**

Code	Description
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H373.G	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated: 5/14/2015 - version 1

Product code: 9022180

**Additional classification information**



HMIS Health: 1 = SLIGHT

HMIS Health - Is health hazard chronic?: Yes

HMIS Flammability: 1 = Combustible if heated

HMIS Reactivity: 0 = MINIMAL

HMIS P.P.E.: Safety glasses, gloves

NFPA Health: 1 = SLIGHT

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = MINIMAL

NFPA Special Risk: N.A.

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

**Legend to abbreviations and acronyms used in the safety data sheet:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.