

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Trade name : BR-100  
 Product code : 2660Y1

#### 1.2. Recommended use and restrictions on use

Recommended use : Detergent, Vehicle cleaning/vehicle care product

#### 1.3. Supplier

Synthetic Labs  
 24 Victory Lane  
 Dracut, MA 01826 - United States  
 T 800.255.4050 - F 978.957.5122  
[www.syntecpro.com](http://www.syntecpro.com)

#### 1.4. Emergency telephone number

Emergency number : Infotrac 24 Hour Medical Emergency Number: 1-800-535-5053

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin corrosion/irritation Category 1A Causes severe skin burns and eye damage  
 Serious eye damage/eye irritation Category 1 Causes serious eye damage

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : Causes severe skin burns and eye damage  
 Causes serious eye damage

Precautionary statements (GHS US) : Do not breathe dust/fume/gas/mist/vapours/spray.  
 Wash hands, forearms and face thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If swallowed: rinse mouth. Do NOT induce vomiting.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 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.  
 Immediately call a poison center or doctor.  
 Specific treatment (see supplemental first aid instruction on this label).  
 Wash contaminated clothing before reuse.  
 Store locked up.  
 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                                  | Product identifier   | %       | GHS US classification  |
|---------------------------------------|----------------------|---------|--|
| Disodium Metasilicate                 | (CAS-No.) 6834-92-0  | 15 – 20 | Met. Corr. 1, H290<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4<br>(Inhalation:dust,mist), H332<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335 |
| Sodium Tripolyphosphate               | (CAS-No.) 7758-29-4  | 10 – 15 | Acute Tox. 2<br>(Inhalation:dust,mist), H330<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319   |
| Nitrilotriacetic acid, trisodium salt | (CAS-No.) 5064-31-3  | 5 – 10  | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Carc. 2, H351   |
| Alcohols, Ehoxylated                  | (CAS-No.) 68439-46-3 | 5 – 10  | Acute Tox. 4 (Oral), H302  |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

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### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|   |                     |
|---|---------------------|
| <b>BR-100</b>   |                     |
| No additional information available                     |                     |
| <b>Disodium Metasilicate (6834-92-0)</b>                |                     |
| No additional information available                     |                     |
| <b>Sodium Tripolyphosphate (7758-29-4)</b>              |                     |
| No additional information available                     |                     |
| <b>Nitriolriacetic acid, trisodium salt (5064-31-3)</b> |                     |
| No additional information available                     |                     |
| <b>Alcohols, Ehoxylated (68439-46-3)</b>                |                     |
| <b>USA - ACGIH - Occupational Exposure Limits</b>       |                     |
| ACGIH TWA (ppm)   | 1 ppm               |
| <b>USA - OSHA - Occupational Exposure Limits</b>        |                     |
| OSHA PEL (TWA) (ppm)                                    | 1 ppm               |
| OSHA PEL (STEL) (ppm)                                   | 5 ppm               |
| <b>USA - NIOSH - Occupational Exposure Limits</b>       |                     |
| NIOSH REL (TWA) (ppm)                                   | 5 ppm               |
| NIOSH REL (ceiling) (mg/m <sup>3</sup> )                | 9 mg/m <sup>3</sup> |

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                                  | : Solid             |
| Appearance                                      | : Powder.           |
| Color   | : Yellow            |
| Odor  | : Citrus fruits     |
| Odor threshold                                  | : No data available |
| pH  | : No data available |
| pH solution                                     | : 11.5 – 12.5       |
| Melting point                                   | : No data available |
| Freezing point                                  | : Not applicable    |
| Boiling point                                   | : No data available |
| Flash point                                     | : Not applicable    |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Flammability (solid, gas)                       | : Non flammable.    |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20 °C                 | : No data available |
| Relative density                                | : Not applicable    |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosion limits                                | : Not applicable    |
| Explosive properties                            | : No data available |
| Oxidizing properties                            | : No data available |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| <b>Disodium Metasilicate (6834-92-0)</b> |   |
|--|---|
| LD50 oral rat                            | 1152 – 1349 mg/kg body weight (Rat, Male / female, Experimental value, Oral)  |
| LD50 dermal rat                          | > 5000 mg/kg body weight (EPA OPPTS 870.1200: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))     |
| LC50 inhalation rat (mg/l)               | > 2.06 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |

| <b>Sodium Tripolyphosphate (7758-29-4)</b> |  |
|--|--|
| LD50 oral rat                              | > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))                |
| LD50 dermal rabbit                         | > 4640 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal, 14 day(s))   |
| LC50 inhalation rat (mg/l)                 | > 0.39 mg/l (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s)) |

| <b>Nitrilotriacetic acid, trisodium salt (5064-31-3)</b> |   |
|--|---|
| LD50 oral rat  | 1740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))   |
| LD50 dermal rabbit                                       | > 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal) |
| LC50 inhalation rat (mg/l)                               | > 5 mg/l (4 h, Rat, Male, Experimental value, Inhalation (aerosol), 14 day(s))  |

| <b>Alcohols, Ehoxylated (68439-46-3)</b> |                               |
|--|-------------------------------|
| LD50 oral rat                            | 1378 mg/kg (Rat, Oral)        |
| LD50 dermal rabbit                       | > 2000 mg/kg (Rabbit, Dermal) |

|                                   |                              |
|-----------------------------------|------------------------------|
| Skin corrosion/irritation         | : Causes severe skin burns.  |
| Serious eye damage/irritation     | : Causes serious eye damage. |
| Respiratory or skin sensitization | : Not classified             |
| Germ cell mutagenicity            | : Not classified             |
| Carcinogenicity                   | : Not classified.            |
| Reproductive toxicity             | : Not classified             |

Specific target organ toxicity – single exposure : Not classified

| <b>Disodium Metasilicate (6834-92-0)</b>         |                                   |
|--|-----------------------------------|
| Specific target organ toxicity – single exposure | May cause respiratory irritation. |

Specific target organ toxicity – repeated exposure : Not classified

|                      |                     |
|----------------------|---------------------|
| Aspiration hazard    | : Not classified    |
| Viscosity, kinematic | : No data available |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| <b>Disodium Metasilicate (6834-92-0)</b> |   |
|--|---|
| LC50 fish 1                              | 210 mg/l (ISO 7346-1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value)       |
| EC50 Daphnia 1                           | 1700 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |

| <b>Sodium Tripolyphosphate (7758-29-4)</b> |   |
|--|---|
| LC50 fish 1                                | > 1850 mg/l (AFNOR, 24 h, Danio rerio, Fresh water, Experimental value)                                 |
| EC50 Daphnia 1                             | > 100 mg/l (EPA OTS 797.1930, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae)                              | 160 mg/l (ISO 8692, 4 day(s), Desmodesmus subspicatus, Fresh water, Experimental value)                 |

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| <b>Nitrilotriacetic acid, trisodium salt (5064-31-3)</b> |   |
|--|---|
| LC50 fish 1  | 114 mg/l (APHA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)  |
| EC50 Daphnia 1   | 98 mg/l (96 h, Gammarus sp., Flow-through system, Fresh water, Experimental value)  |
| ErC50 (algae)  | > 91.5 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodemus subspicatus, Static system, Fresh water, Experimental value, GLP) |

### 12.2. Persistence and degradability

| <b>Disodium Metasilicate (6834-92-0)</b> |                                   |
|--|-----------------------------------|
| Persistence and degradability            | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)             | Not applicable                    |
| ThOD                                     | Not applicable                    |
| BOD (% of ThOD)                          | Not applicable                    |

| <b>Sodium Tripolyphosphate (7758-29-4)</b> |                                   |
|--|-----------------------------------|
| Persistence and degradability              | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)               | Not applicable                    |
| ThOD                                       | Not applicable                    |
| BOD (% of ThOD)                            | Not applicable                    |

| <b>Nitrilotriacetic acid, trisodium salt (5064-31-3)</b> |  |
|--|--|
| Persistence and degradability                            | Biodegradable in the soil. Readily biodegradable in water. |
| Chemical oxygen demand (COD)                             | 0.625 g O <sub>2</sub> /g substance                        |

| <b>Alcohols, Ehoxylated (68439-46-3)</b> |                                 |
|--|---------------------------------|
| Persistence and degradability            | Readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| <b>Disodium Metasilicate (6834-92-0)</b> |                                  |
|--|----------------------------------|
| Bioaccumulative potential                | Bioaccumulation: not applicable. |

| <b>Sodium Tripolyphosphate (7758-29-4)</b> |                      |
|--|----------------------|
| Bioaccumulative potential                  | Not bioaccumulative. |

| <b>Nitrilotriacetic acid, trisodium salt (5064-31-3)</b> |  |
|--|--|
| BCF fish 1   | 1 – 3 (96 h, Brachydanio rerio, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow)          | -13.2 – -2.62 (Calculated, 25 °C)                                |
| Bioaccumulative potential                                | Not bioaccumulative.   |

| <b>Alcohols, Ehoxylated (68439-46-3)</b> |                                    |
|--|------------------------------------|
| Bioaccumulative potential                | No bioaccumulation data available. |

### 12.4. Mobility in soil

| <b>Disodium Metasilicate (6834-92-0)</b> |   |
|--|---|
| Ecology - soil                           | No (test)data on mobility of the substance available. |

| <b>Sodium Tripolyphosphate (7758-29-4)</b>      |                                       |
|---|---------------------------------------|
| Partition coefficient n-octanol/water (Log Koc) | 2.15 (log Koc, Experimental value)    |
| Ecology - soil                                  | Low potential for adsorption in soil. |

| <b>Nitrilotriacetic acid, trisodium salt (5064-31-3)</b> |  |
|--|--|
| Partition coefficient n-octanol/water (Log Koc)          | 1.419 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil   | Highly mobile in soil.                               |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not applicable

#### Transportation of Dangerous Goods

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Disodium Metasilicate (6834-92-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Sodium Tripolyphosphate (7758-29-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Nitrilotriacetic acid, trisodium salt (5064-31-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Alcohols, Ehoxylated (68439-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

#### 15.2. International regulations

##### CANADA

##### Disodium Metasilicate (6834-92-0)

Listed on the Canadian DSL (Domestic Substances List)

##### Sodium Tripolyphosphate (7758-29-4)

Listed on the Canadian DSL (Domestic Substances List)

##### Nitrilotriacetic acid, trisodium salt (5064-31-3)

Listed on the Canadian DSL (Domestic Substances List)

##### Alcohols, Ehoxylated (68439-46-3)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

#### 15.3. US State regulations

| Component                          | State or local regulations                     |
|------------------------------------|--|
| Sodium Tripolyphosphate(7758-29-4) | U.S. - Pennsylvania - RTK (Right to Know) List |

### SECTION 16: Other information

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|               |   |
|---------------|---|
| Hazard Rating |   |
| Health        | : 2 Moderate Hazard - Temporary or minor injury may occur   |
| Flammability  | : 0 Minimal Hazard - Materials that will not burn   |
| Physical      | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*