

**SECTION 1: Product and company identification**

Product name : Super High Heat  
 Use of the substance/mixture : Drain opener  
 Product code : 0618  
 Company : Total Solutions  
 P.O. Box 240014  
 Milwaukee, WI 53224 - USA  
 T (414) 354-6417  
 Emergency number : Chemtrec: (800) 424-9300

**SECTION 2: Hazards identification**

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

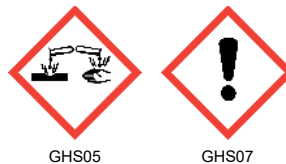
**GHS US classification**

Acute Tox. 4 (Dermal) H312  
 Skin Corr. 1A H314

**2.2. Label elements**

**GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
 Hazard statements (GHS US) : Harmful in contact with skin  
 Causes severe skin burns and eye damage  
 Precautionary statements (GHS US) : Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If swallowed: rinse mouth. Do NOT induce vomiting  
 If on skin: Wash with plenty of water  
 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  
 Call a poison center or doctor if you feel unwell  
 Specific treatment (see supplemental first aid instruction on this label)  
 Specific treatment (see supplemental first aid instruction on this label)  
 Take off contaminated clothing and wash it before reuse.  
 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**

No additional information available

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

Not applicable

**SECTION 3: Composition/Information on ingredients**

**3.1. Substances**

Not applicable

Full text of H-phrases: see section 16

**3.2. Mixtures**

Name	Product identifier	%	GHS US classification
sodium hydroxide	(CAS-No.) 1310-73-2	75 - 90	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314

# Super High Heat

## Safety Data Sheet

# TOTAL SOLUTIONS™

Name	Product identifier	%	GHS US classification
SODIUM NITRATE	(CAS-No.) 7631-99-4	7 - 13	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Get medical advice/attention.
First-aid measures after ingestion	: Fatal if swallowed. Immediately call a poison center or doctor/physician. Rinse mouth. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: May cause respiratory irritation. Corrosive to the respiratory tract.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact	: Causes serious eye irritation. Corrosion of the eye tissue. Permanent eye damage.
Symptoms/effects after ingestion	: Fatal if swallowed. Burns to the gastric/intestinal mucosa.

#### 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 : Carbon dioxide. Foam. Dry chemical powder.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity : Reacts violently with water. Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen).

#### 5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers.
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

General measures : Isolate from fire, if possible, without unnecessary risk.

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

Protective equipment : Gloves. Protective goggles. Face-shield.  
Emergency procedures : Keep upwind.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

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

For containment : Contain released product, pump into suitable containers.  
Methods for cleaning up : Absorb spillage to prevent material-damage. Solid spill: shovel. This material and its container must be disposed of in a safe way, and as per local legislation. Spill must not return in its original container.

#### 6.4. Reference to other sections

No additional information available

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Precautions for safe handling : Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

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

Storage conditions : Keep container closed when not in use. Store in original container.

Incompatible products : Strong acids.

Storage area : Keep only in the original container. Store in a dry area. Store in a cool area.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

<b>sodium hydroxide (1310-73-2)</b>		
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	URT, eye, & skin irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>sodium carbonate (497-19-8)</b>		
Not applicable		
<b>SODIUM NITRATE (7631-99-4)</b>		
Not applicable		

**8.2. Exposure controls**

Personal protective equipment : Face shield. Gloves. Safety glasses. Protective clothing. Use appropriate personal protective equipment when risk assessment indicates this is necessary.



**SECTION 9: Physical and chemical properties**

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

Physical state : Solid  
 Appearance : Red granules.  
 Odor : No odor  
 Odor threshold : No data available  
 pH : No data available  
 Melting point : No data available  
 Freezing point : No data available  
 Boiling point : No data available  
 Flash point : No data available  
 Relative evaporation rate (butyl acetate=1) : No data available  
 Flammability (solid, gas) : No data available  
 Explosion limits : No data available  
 Explosive properties : No data available  
 Oxidizing properties : No data available  
 Vapor pressure : No data available  
 Relative density : No data available  
 Relative vapor density at 20 °C : No data available  
 Solubility : Soluble in water.  
 Log Pow : No data available  
 Log Kow : 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

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Reacts violently with water. Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen).

**10.2. Chemical stability**

No additional information available

**10.3. Possibility of hazardous reactions**

Reacts violently with water.

**10.4. Conditions to avoid**

No additional information available

**10.5. Incompatible materials**

May be corrosive to metals. Strong acids. metals.

**10.6. Hazardous decomposition products**

May release flammable gases.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>sodium hydroxide (1310-73-2)</b>	
LD50 oral rat	4090 mg/kg
LD50 dermal rabbit	1350 mg/kg
ATE CLP (oral)	4090 mg/kg body weight
ATE CLP (dermal)	1350 mg/kg body weight
<b>sodium carbonate (497-19-8)</b>	
LD50 oral rat	2800 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg (16 CFR 1500. 40, 24 h, Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	(2 h, Rat, Male, Experimental value)
ATE CLP (oral)	2800 mg/kg body weight
ATE CLP (vapors)	2.3 mg/l/4h
ATE CLP (dust, mist)	2.3 mg/l/4h
<b>SODIUM NITRATE (7631-99-4)</b>	
LD50 oral rat	1267 mg/kg
ATE CLP (oral)	1267 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
 Serious eye damage/irritation : Eye damage, category 1, implicit  
 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  
 Specific target organ toxicity – repeated exposure : Not classified  
 Aspiration hazard : Not classified  
 Symptoms/effects after inhalation : May cause respiratory irritation. Corrosive to the respiratory tract.  
 Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.  
 Symptoms/effects after eye contact : Causes serious eye irritation. Corrosion of the eye tissue. Permanent eye damage.  
 Symptoms/effects after ingestion : Fatal if swallowed. Burns to the gastric/intestinal mucosa.

**SECTION 12: Ecological information**

**12.1. Toxicity**

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sodium carbonate (497-19-8)	
LC50 fish 1	300 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	200 - 227 mg/l (48 h, Ceriodaphnia sp., Semi-static system, Fresh water, Experimental value, Locomotor effect)

SODIUM NITRATE (7631-99-4)	
LC50 fish 1	6650 mg/l static test LC50 - Gambusia affinis (Mosquito fish)

### 12.2. Persistence and degradability

sodium carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

### 12.3. Bioaccumulative potential

sodium carbonate (497-19-8)	
Log Pow	-6.19 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

### Department of Transportation (DOT)

Transport document description : UN3262 Corrosive solid, basic, inorganic, n.o.s. (Sodium Hydroxide), 8, II  
 UN-No.(DOT) : UN3262  
 Proper Shipping Name (DOT) : Corrosive solid, basic, inorganic, n.o.s.  
 Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136  
 Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger  
 DOT Packaging Non Bulk (49 CFR 173.xxx) : 212  
 DOT Packaging Bulk (49 CFR 173.xxx) : 240  
 DOT Symbols : G - Identifies PSN requiring a technical name  
 DOT Special Provisions (49 CFR 172.102) : IB8,IP2,IP4,T3,TP33  
 DOT Packaging Exceptions (49 CFR 173.xxx) : 154  
 DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 15 kg  
 DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 50 kg  
 DOT Vessel Stowage Location : B  
 DOT Vessel Stowage Other : 52 - Stow "separated from" acids

### Additional information

Emergency Response Guide (ERG) Number : 154  
 Other information : When transported by ground, this product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.154. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may be required.

### ADR

No additional information available

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### Transport by sea

UN-No. (IMDG) : 3262  
 Proper Shipping Name (IMDG) : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  
 Class (IMDG) : 8 - Corrosive substances  
 Packing group (IMDG) : II - substances presenting medium danger

### Air transport

UN-No. (IATA) : 3262  
 Proper Shipping Name (IATA) : Corrosive solid, basic, inorganic, n.o.s.  
 Class (IATA) : 8 - Corrosives  
 Packing group (IATA) : II - Medium Danger

### SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

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.

sodium hydroxide (1310-73-2)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1000 lb

### WARNING

This product can expose you to lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

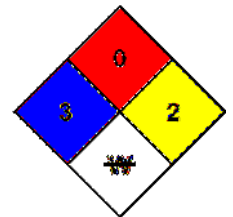
### SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.  
 NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.  
 NFPA reactivity : 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.  
 NFPA specific hazard : W - Materials that react violently or explosively with water.



Prepared by: Technical Department

*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. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.*