

Page 1 of 6 **BTI-015**

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 2.2

SDS Revision Date: 10/20/2021

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| 1.1 | Product Name: | 1 | PRODU | CIACO | VIFAIN | וטוו | _ | 11 10/ | 711 | JIN | | | | | |
| 1.1 | Product Name: | TRU TE | MP® XL | | | | | | | | | | | | |
| 1.2 | Chemical Name: | Sodium Nitra | te/Sodium Hyd | roxide Solution | ı | | | | | | | | | | |
| 1.3 | Synonyms: | 611351, 611 | 358, 611390 | | | | | | | | | | | | |
| 1.4 | Trade Names: | Tru Temp [®] XL Blackener | | | | | | | | | | | | | |
| 1.5 | Product Use: | Solution for b | olackening iron | and steel | | | | | | | | | | | |
| 1.6 | Distributor's Name: | Birchwood La | aboratories LLC | | | | | | | | | | | | |
| 1.7 | Distributor's Address: | 7900 Fuller F | Road, Eden Pra | irie, MN 55344 | I USA | | | | | | | | | | |
| 1.8 | Emergency Phone: | ChemTrec | +1 (800) 424 | -9300 / +1 (7 | 03) 527- | 3887 o | r Poi s | son C | ontro | ol Cen | iter + | 1 (855 |) 281- | 1742 | |
| 1.9 | Business Phone / Fax: | | -7900 / +1 (952 | • | , | | | | | | | , | , - | | |
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| 0.1 | Lu u es e | | | IAZARDS | | | | | | | | | | | |
| 2.1 | Hazard Identification: | | accordance wi | | | | andard | ls. Int | ended | I to co | mply v | vith O | SHA 2 | 9 CFR 1910 | .1200. |
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| 2.2 | Label Elements: | | : Skin Corrosio | | | • | | | | | | 11 | . 1 | | |
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| | | contaminate | d clothing befo | re reuse P304 | l+P340 - | IF INH | ALED: | Remo | ve pe | erson to | o fresh | n air ai | nd | | |
| | | keep comfo | ortable for br | eathing. P31 | 0 – Imi | mediate | ly cal | ll a ∣ | POISC | ON C | ENTER | R/docto | or. | | |
| | | P305+P351- | +P338 IF IN EY | /FS: Rinse ca | utiously | vith wate | er for | severa | l mini | too D | omovo | contr | 4 | | |
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| | | lenses, if posting extinguishing of contents/ | resent and eas g media approp container to an | sy to do. Cor riate for surrou approved was | ntinue rin unding ma te dispos | sing. Pa terials. al plant. | 370+P P405 - | 9378 – – Store | In ca locke | ase of ed up. I | fire: • | use fir Dispo | re- se | • | |
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Page 2 of 6 **BTI-015**

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 2.2

SDS Revision Date: 10/20/2021

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|-------|---|--|--|---|--|---|--|--|---|
| _ | T | | T AID MEAS | | <u>a</u> | | | | |
| .3 | Symptoms of Overexposure: | <u> </u> | ing, irritation, and swe | | | | | | |
| | | | ing, itching, rash, blist ng, severe abdomina | | | | | | |
| | | | eezing, swelling of thro | | ous membi | ranes dif | ficulty br | reathing | |
| .4 | Acute Health Effects: | May be harmful if inhaled. Mat | | | | | | | er respirat |
| | | tract. Severe burns of mouth, t | | | | | | o ana app | or roopiiat |
| 5 | Chronic Health Effects: | May damage the lungs. May o | cause severe or perm | anent eye damage | | | | | |
| 6 | Target Organs: | Eyes, Skin, Lungs (Corrosive). | | | | | | | |
| 7 | Medical Conditions Aggravated by Exposure: | Pre-existing dermatitis, other | | | HEALTH | 4 | | | 3 |
| | Aggravated by Exposure. | target organs (eyes, skin, and function may be more suscept | | | FLAMM | ABILITY | Y | | 0 |
| | | lunction may be more suscept | ible to the effects of th | iis substance. | PHYSIC | AL HAZ | ZARDS | | 1 |
| | | | | | PROTE | | | IENT | В |
| | | | | | EYES | SKIN | | LUNGS | |
| | | .1 | | | 1 2120 | Ortin | | 201100 | 1 |
| | | 5. FII | REFIGHTING | MEASURES | | | | | |
| 1 | Fire & Explosion Hazards: | Non-flammable. May react with | | | can form e | explosive | mixture | s | |
| | | with air. | • | , 3 3 , | | ' | | | |
| 2 | Extinguishing Methods: | Use fire-extinguishing media a | ppropriate for surrour | iding materials. | | | | | |
| 3 | Firefighting Procedures: | As with any fire, firefighters sh | | | | | | | |
| | | approved or equivalent self-co | | | | | | | 1 |
| | | as for surrounding materials degradation may produce oxid | | | | | | | |
| | | should be fought from a safe d | | | | | | | |
| | | spray to cool fire-exposed sur | | | | | | | |
| | | fire control or dilution from enter | ering sewers drains | drinking water our | lv or anv n | natural wa | aterway. | | |
| | | THE CONTROL OF GRADIENT HOTTI CHE | cring sewers, drains, | uninking water supp | ,, | | | | |
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| 1 | Spills: | 6. ACCIDI | ENTAL RELEA | ASE MEASU | RES | propriate | Persona | | |
| 1 | Spills: | 6. ACCIDI Before cleaning any spill or lea (PPE). Use safety glasses or | ENTAL RELEA | ASE MEASU | RES | propriate | Persona | | |
| 1 | Spills: | 6. ACCIDI Before cleaning any spill or lea (PPE). Use safety glasses or etc.) to prevent skin contact. | ENTAL RELEA k, individuals involved safety goggles and fa | ASE MEASU d in spill cleanup mi ace shield; use glov | RES ust wear appes and other | propriate er protect | Personative cloth | ning (e.g., | apron, boo |
| 1 | Spills: | 6. ACCIDI Before cleaning any spill or lea (PPE). Use safety glasses or etc.) to prevent skin contact. Small Spills: Wear appropriate | ENTAL RELEA k, individuals involved safety goggles and fa protective equipment | ASE MEASU d in spill cleanup mu ice shield; use glow including gloves ar | RES ust wear appear and other | propriate er protect e eyewea | Personative cloth | ning (e.g., a non-com | apron, boo |
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 2.2 SDS Revision Date: 10/20/2021

| | 8. E | EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd |
|------|------------------------------------|--|
| 3.4 | Eye Protection: | Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended. |
| .5 | Hand Protection: | Wear protective, chemical-resistant gloves (e.g., neoprene) when using or handling this product. |
| .6 | Body Protection: | A chemical resistant apron and/or protective clothing are recommended when handling or using this product. |
| | | 9. PHYSICAL & CHEMICAL PROPERTIES |
| .1 | Appearance: | Clear liquid |
| 1.2 | Odor: | Odorless |
| 1.3 | Odor Threshold: | NA NA |
| 1.4 | pH: | 14.0 |
| .5 | Melting Point/Freezing Point: | NA NA |
| .6 | Initial Boiling Point/Boiling | > 100 °C (> 212 °F) |
| .7 | Range: Flashpoint: | |
| .8 | Upper/Lower Flammability | NA |
| .0 | Limits: | NA NA |
| .9 | Vapor Pressure: | NA NA |
| .10 | Vapor Density: | NA NA |
| .11 | Relative Density: | 1.295 |
| .12 | Solubility: | Complete (water) |
| .13 | Partition Coefficient (log Pow): | NA NA |
| .14 | Autoignition Temperature: | NA NA |
| .15 | Decomposition Temperature: | NA NA |
| .16 | Viscosity: | NA NA |
| .17 | Other Information: | Evaporation Rate: < 1.0 (ethyl ether = 1.0) |
| 0.1 | Stability: Hazardous Decomposition | Stable Contact with metals such as aluminum and zinc may produce hydrogen gas. |
| | Products: | |
| 0.3 | Hazardous Polymerization: | Will not occur. |
| 0.4 | Conditions to Avoid: | Keep away from clothing and other combustible materials. Incompatible substances. |
| 0.5 | Incompatible Substances: | Water-reactive substances, metals (e.g. aluminum, zinc) strong acids, oxidizers. |
| | | 11. TOXICOLOGICAL INFORMATION |
| 1.1 | Routes of Entry: | Inhalation: YES Absorption: YES Ingestion: YES |
| 1.2 | Toxicity Data: | Sodium Hydroxide: LD ₅₀ (oral, mouse) = 6,600 mg/kg; Sodium Hydroxide: LD ₅₀ (oral, rabbit) = 500 mg/kg; Sodium Nitra LD ₅₀ (oral, rat) = 1,267 mg/kg; LD ₅₀ (oral, rabbit) = 2,680 mg/kg. |
| 1.3 | Acute Toxicity: | See Section 4.4 |
| 1.4 | Chronic Toxicity: | See Section 4.5 |
| 1.5 | Suspected Carcinogen: | NA NA |
| 1.6 | Reproductive Toxicity: | This product is not reported to cause reproductive toxicity in humans. |
| | Mutagenicity: | This product is not reported to produce mutagenic effects in humans. |
| | Embryotoxicity: | This product is not reported to produce embryotoxic effects in humans. |
| | Teratogenicity: | This product is not reported to cause teratogenic effects in humans. |
| | Reproductive Toxicity: | This product is not reported to cause reproductive effects in humans. |
| 1.7 | Irritancy of Product: | See Section 4.2 |
| 1.8 | Biological Exposure Indices: | NE NE |
| 11.9 | Physician Recommendations: | Treat symptomatically. |
| | | 12. ECOLOGICAL INFORMATION |
| 2.1 | Environmental Stability: | No data available. |
| 12.2 | Effects on Plants & Animals: | No data available. |
| 12.3 | Effects on Aquatic Life: | Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensit |



15.8

Other Requirements:

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 2.2

SDS Revision Date: 10/20/2021

| riep | ared to OSHA, ACC, ANG | 51, WHON, WHINIS, GHO & EU Standards SDS Nevision 2.2 SDS Nevision Date. 10/20/2021 |
|------|--------------------------------|---|
| | | |
| | | 13. DISPOSAL CONSIDERATIONS |
| 13.1 | Waste Disposal: | Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 3. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler. |
| 13.2 | Special Considerations: | U.S. EPA Hazardous Waste – Characteristic - Corrosive (D002) |
| | | |
| | | 14. TRANSPORTATION INFORMATION |
| | riptive information may be | nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. |
| 14.1 | 49 CFR (GND): | UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III LTD QTY (IP VOL ≤ 5.0 L) |
| 14.2 | IATA (AIR): | UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 0.5 L), PI Y841 |
| 14.3 | IMDG (OCN): | UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 5.0 L) |
| 14.4 | TDGR (Canadian GND): | UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 5.0 L) |
| 14.5 | ADR/RID (EU): | UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 5.0 L) |
| 14.6 | SCT (MEXICO): | UN3266, LIQUIDOS CORROSIVOS, BASICO, INORGANICO, N.E.P. (HIDROXIDO DE SODIO), 8, III, CANTIDAD LIMITADA (IP VOL ≤ 5.0 L) |
| 14.7 | ADGR (AUS): | UN3266, CORROSIVE LIQUIDS, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, III, LTD QTY (IP VOL ≤ 5.0 L) |
| | | 15. REGULATORY INFORMATION |
| 15.1 | SARA Reporting | This product does not contain any substances subject to SARA Title III, Sections 302 or 313 reporting requirements. |
| 15.2 | Requirements: SARA TPQ: | There are no specific Threshold Planning Quantities for the components of this product. |
| 15.3 | TSCA Inventory Status: | The components of this product are listed on the TSCA Inventory. |
| 15.4 | CERCLA Reportable Quantity: | Sodium Hydroxide: 1,000 lbs (454 kg) |
| 15.5 | Other Federal Requirements: | NA NA |
| 15.6 | Other Canadian Regulations: | This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class E, D2B (Corrosive, Other Toxic Effects). |
| 15.7 | State Regulatory Information: | Sodium Hydroxide is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA). Sodium Nitrate is found on the following state criteria lists: FL, MA, MN, PA, WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.pesswrings.ca.gov . |
| 15 Q | Other Requirements: | This product is found on the following inventory lists: Australia, ALCS China, IECSC Europa, ELINICS/EINEC, Japan |

This product is found on the following inventory lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC, Japan – ENCS; Korea – KECI; New Zealand – NZIoC; Philippines – PICCS; USA – TSCA.



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| | | 16. OTHER INF | FORMATION |
|------|----------------------|---|--|
| 16.1 | Other Information: | away from clothing and other combustible mat with soap and warm water thoroughly after han clothing/eye protection/face protection. IF SW/ Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and ke IF IN EYES: Rinse cautiously with water for sev | faces, sparks, open flames, and other ignition sources. No smoking. Keep erials. Do not breathe dust or mist. Wash hands and exposed skin areas dling. Avoid release to the environment. Wear protective gloves/ protective ALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Rinse skin with water or shower. Was contaminated clothing before reuse. Seep comfortable for breathing. Immediately call a POISON CENTER/doctor. Veral minutes. Remove contact lenses, if present and easy to do. Continue ning media appropriate for surrounding materials. Store locked up. |
| 16.2 | Terms & Definitions: | See last page of this Safety Data Sheet. | |
| 16.3 | Disclaimer: | government regulations must be reviewed fo Technologies' knowledge, the information cont suitability or completeness is not guaranteed a The information contained herein relates only to | OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other rapplicability to this product. To the best of ShipMate's & Birchwood tained herein is reliable and accurate as of this date; however, accuracy, and no warranties of any type, either expressed or implied, are provided. In the specific product(s). If this product(s) is combined with other materials, Data may be changed from time to time. Be sure to consult the latest |
| 16.4 | Prepared for: | Birchwood Technologies 7900 Fuller Road Eden Prairie, MN 55344 USA Tel: +1 (952) 937-7900 Fax: +1 (952) 937-7979 http://www.birchwoodtechnologies.com | BIRCHWOOD® TECHNOLOGIES |
| 16.5 | Prepared by: | ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com | ShipMate* Dangerous Goods Training & Consulting |



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

| CAS No. | Chemical Abstract Service Number |
|------------|--|
| RTECS No. | Registry of Toxic Effects of Chemical Substances Number |
| EINECS No. | European Inventory of Existing Commercial Chemical Substances Number |

EXPOSURE LIMITS IN AIR:

| ACGIH | American Conference on Governmental Industrial Hygienists |
|-------|--|
| IDLH | Immediately Dangerous to Life and Health |
| NOHSC | National Occupational Health and Safety Commission (Australia) |
| OSHA | U.S. Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| STEL | Short Term Exposure Limit |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

FIRST AID MEASURES:

| CPR | Cardiopulmonary resuscitation - method in which a person whose heart has |
|-----|---|
| | stopped receives manual chest compressions and breathing to circulate blood |
| | and provide oxygen to the body. |

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

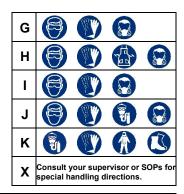
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

| 0 | Minimal Hazard |
|---|-----------------|
| 1 | Slight Hazard |
| 2 | Moderate Hazard |
| 3 | Severe Hazard |
| 4 | Extreme Hazard |



PERSONAL PROTECTION RATINGS:

| Α | | | |
|---|--|--|--|
| В | | | |
| С | | THE STATE OF THE S | |
| D | | THE STATE OF THE S | |
| Е | | | |
| F | | The state of the s | |





OTHER STANDARD ABBREVIATIONS:

| Carc | Carcinogenic |
|---------|--|
| Irrit | Irritant |
| NA | Not Available |
| NR | No Results |
| ND | Not Determined |
| NE | Not Established |
| NF | Not Found |
| SCBA | Self-Contained Breathing Apparatus |
| Sens | Sensitization |
| STOT RE | Specific Target Organ Toxicity – Repeat Exposure |
| STOT SE | Specific Target Organ Toxicity – Single Exposure |

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

| FLAMMABILI | FLAMMABILITY LIMITS IN AIR: | | | | |
|-----------------------------|---|--|--|--|--|
| Autoignition Temperature | Minimum temperature required to initiate combustion in air with no other source of ignition | | | | |
| LEL | Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source | | | | |
| UEL | Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source | | | | |

HAZARD RATINGS:

| 0 | Minimal Hazard | FLAMMABILITY | | | |
|---------|-----------------|--------------|--|--|--|
| 1 | Slight Hazard | · = | | | |
| 2 | Moderate Hazard | REACTIVITY | | | |
| 3 | Severe Hazard | | | | |
| 4 | Extreme Hazard | | | | |
| ACD | Acidic | <u>1</u> 2 | | | |
| ALK | Alkaline | | | | |
| COR | Corrosive | / ~~~ | | | |
| W | Use No Water | HEALTH 🔪 | | | |
| ОХ | Oxidizer | SPECIAL | | | |
| TREFOIL | Radioactive | PRECAUTIONS | | | |

TOXICOLOGICAL INFORMATION:

| LD ₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals | | | |
|--|---|--|--|--|
| LC ₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal | | | |
| ppm | Concentration expressed in parts of material per million parts | | | |
| TD _{lo} | Lowest dose to cause a symptom | | | |
| TCLo | owest concentration to cause a symptom | | | |
| TD _{Io} , LD _{Io} , & LD _o or | Lowest dose (or concentration) to cause lethal or toxic effects | | | |
| TC, TCo, LCio, & LCo | | | | |
| IARC | International Agency for Research on Cancer | | | |
| NTP | National Toxicology Program | | | |
| RTECS | Registry of Toxic Effects of Chemical Substances | | | |
| BCF | Bioconcentration Factor | | | |
| TLm | Median threshold limit | | | |
| log Kow or log Koc | Coefficient of Oil/Water Distribution | | | |

REGULATORY INFORMATION:

| WHMIS | Canadian Workplace Hazardous Material Information System | | | | |
|-------|--|--|--|--|--|
| DOT | U.S. Department of Transportation | | | | |
| TC | Transport Canada | | | | |
| EPA | U.S. Environmental Protection Agency | | | | |
| DSL | Canadian Domestic Substance List | | | | |
| NDSL | Canadian Non-Domestic Substance List | | | | |
| PSL | PSL Canadian Priority Substances List | | | | |
| TSCA | TSCA U.S. Toxic Substance Control Act | | | | |
| EU | EU European Union (European Union Directive 67/548/EEC) | | | | |
| WGK | Wassergefährdungsklassen (German Water Hazard Class) | | | | |

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

| 0 | (A) | (2) | (3) | \odot | (4) | | (R) |
|------------|------------|------------|----------|------------|------------|-----------|----------|
| Class A | Class B | Class C | Class D1 | Class D2 | Class D3 | Class E | Class F |
| Compressed | Flammable | Oxidizing | Toxic | Irritation | Infectious | Corrosive | Reactive |

CLP/GHS (1272/2008/EC) PICTOGRAMS:

| | (\$) | | \Diamond | | | \Leftrightarrow | | (|
|-----------|-------------|----------|-------------|-----------|-------|-----------------------|------------------|-------------|
| GHS01 | GHS02 | GHS03 | GHS04 | GHS05 | GHS06 | GHS07 | GHS08 | GHS09 |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive | Toxic | Harmful Irritating | Health Hazard | Environment |