

# SAFETY DATA SHEET



**KNIGHT  
ENTERPRISES**  
SPECIALTY CHEMICALS

Date Prepared : 07/16/2015

SDS No : K-44

Date Revised : 01/05/2016

Revision No : 3

## Plasma Quench 44

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Plasma Quench 44  
**GENERAL USE:** Cleaning agent  
**PRODUCT DESCRIPTION:** Rust Preventive  
**PRODUCT FORMULATION NAME:** Plasma Quench 44

#### MANUFACTURER

Knight Enterprises  
 128 W Lake St  
 Customer Service: 1-708-531-1234  
 Fax:1-708-531-0010  
 www.knightnorros.com  
 Northlake, IL 60164

**Emergency Phone:** 1-800-535-5053

**Alternate Emergency Phone:** 1-352-323-3500

**E-Mail:** TomSickel@KnightNorros.com

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**INTERNATIONAL :** (352)323-3500

**INFOTRAC (US Transportation) :** (800) 535-5053

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

Oxidizing Liquids, Category 3  
 Acute Toxicity (Inhalation), Category 1  
 Acute Hazards to the Aquatic Environment, Category 1  
 Aquatic Toxicity, Category 1  
 Serious Eye Damage/Irritation, Category 2A  
 Eye Irritation, Category 2A  
 Acute Toxicity (Oral), Category 3

#### GHS LABEL

**Physical state** liquid



Exclamation  
mark



Skull and  
crossbones



Flame over  
circle

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H272: May intensify fire; oxidizer.  
 H301: Toxic if swallowed.  
 H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H401: Toxic to aquatic life.  
 H411: Toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

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**Prevention:**

- P103: Read label before use.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P243: Take action to prevent static discharges.
- P270: Do not eat, drink or smoke when using this product.

**Response:**

- P308+P313: IF exposed or concerned: Get medical advice/ attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P304+P312: IF INHALED: Call a POISON CENTER/doctor/...if you feel unwell.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P314: Get medical advice/attention if you feel unwell.
- P321: Specific treatment (see First Aid on this label).
- P363: Wash contaminated clothing before reuse.
- P390: Absorb spillage to prevent material damage.

**Storage:**

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**COMMENTS: Other Hazards:**

Toxic to aquatic life.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Sodium Nitrite	10 - 20	7632-00-0
Ethanol, 2-(2-butoxyethoxy)-	< 5	112-34-5

**COMMENTS:** \*\*if Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret\*\*

**4. FIRST AID MEASURES**

**EYES:** Rinse eyes gently with water for at least 15 minutes while holding eyelids apart. Remove contact lenses, if present and easy to do - Continue rinsing. Seek immediate medical attention.

**SKIN:** Remove contaminated clothing. Wash exposed area with water. Seek immediate medical attention. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

**INGESTION:** Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so the vomit does not enter lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

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**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or a doctor/physician.

**NOTES TO PHYSICIAN:** Treat symptomatically.

**ADDITIONAL INFORMATION:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Oxidizer.

**GENERAL HAZARD:** Do not release runoff from fire control methods to sewers or waterways.

**EXTINGUISHING MEDIA:** Water in flooding amounts. Do not use dry chemical, CO<sub>2</sub>, or halon.

**FIRE FIGHTING PROCEDURES:** Use standard firefighting procedures and consider the hazards of other involved materials. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool and spray with water. Exercise caution when fighting any chemical fire.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus (SCBA) pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Sections). Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilated spill area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. Use water mist or spray to disperse vapors. Collect spilled materials for disposal, Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect spilled materials. Remove from surface by skimming or with suitable absorbent. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

**LARGE SPILL:** See "Small Spill" on SDS Sheet.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

**LAND SPILL:** See above (water).

**AIR SPILL:** See above (water).

**GENERAL PROCEDURES:** PERSONAL PRECAUTIONS: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during spill clean-up. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**SPECIAL PROTECTIVE EQUIPMENT:** Use personal protective equipment as required.

#### COMMENTS: Methods for containment and clean-up:

Should NOT be released into the environment.

Never return spill in original containers for re-use.

Observe all local, state, and federal regulations.

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### 7. HANDLING AND STORAGE

**HANDLING:** Wear protective clothing with chemical safety goggles and/or face shields with safety goggles. Use self-contained breathing apparatus if necessary. Do not use in poorly ventilated or confined spaces. When making solutions, heat may be generated. Add slowly to surfaces of solution while stirring to avoid splattering. Never use pressure to empty containers. Empty containers may contain explosive vapors or dangerous residues. Do not cut, puncture, or weld on or near container. All labelled hazardous precautions must be observed. Do not reuse empty container without commercial cleaning or reconditioning. FOR PERSONAL PROTECTION SEE SECTION 8

**STORAGE:** Store in cool, well-ventilated area away from heat and out of direct sunlight. So not store open, unlabelled, mislabeled, or empty containers. Keep containers tightly closed. Store away from incompatible materials. Do not eat, drink, or smoke in work area.

**COMMENTS: Incompatible Materials:** None known based on information supplied.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Apply technical measures to comply with the occupational exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear appropriate protective eye glasses, or chemical safety goggles while handling this product as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

**SKIN:** Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection. A safety shower should be located in the work area.

**RESPIRATORY:** If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. A NIOSH approved respirator for organic vapors is generally acceptable for concentrations up to 10 times the PEL. For higher concentrations, unknown concentrations and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Engineering controls are the preferred mean for controlling chemical exposure. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided with OSHA 29 CFR 1910.134.

**PROTECTIVE CLOTHING:** Wear suitable protective clothing.

**WORK HYGIENIC PRACTICES:** Always observe good 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.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Mild

**APPEARANCE:** Green liquid.

**COLOR:** Green.

**pH:** Alkaline.

**PERCENT VOLATILE:** NA = Not Applicable

**FLASH POINT AND METHOD:** NA = Not Applicable

**AUTOIGNITION TEMPERATURE:** NA = Not Applicable

**VAPOR PRESSURE:** NA = Not Applicable

**VAPOR DENSITY:** NA = Not Applicable

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**BOILING POINT:** 212°F.  
**FREEZING POINT:** NA = Not Applicable  
**MELTING POINT:** NA = Not Applicable  
**POUR POINT:** NA = Not Applicable  
**THERMAL DECOMPOSITION:** NA = Not Applicable  
**SOLUBILITY IN WATER:** 100%  
**EVAPORATION RATE:** NA = Not Applicable  
**DENSITY:** NA = Not Applicable  
**SPECIFIC GRAVITY: (H<sub>2</sub>O=1, at 4°C):** 1.20

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Not reactive under normal conditions.  
**HAZARDOUS POLYMERIZATION:** Does not occur  
**STABILITY:** Stable under recommended storage conditions.  
**CONDITIONS TO AVOID:** Keep out of the reach of children.  
**POSSIBILITY OF HAZARDOUS REACTIONS:** None under normal processing.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal oxidative decomposition of PLASMA QUENCH 44 can produce OXIDES OF NITROGEN, MAY REACT WITH SECONDARY OR TERTIARY AMINES TO PRODUCE NITROSAMINES.  
**INCOMPATIBLE MATERIALS:** Acids, ammonia, amines, reducing agents, cyanides, combustible material, metals, powders.

## 11. TOXICOLOGICAL INFORMATION

## ACUTE

**EYES:** May cause severe irritation to eyes with possible serious eye damage.  
**SKIN ABSORPTION:** Causes skin irritation. This product is not appreciably irritating to the skin, but it can be absorbed in toxic amount when contact is extensive and prolonged. Can be absorbed through skin and produce central nervous system effects. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existed skin disorders should avoid contact with this product.  
**ORAL LD<sub>50</sub>:** Will cause irritation to all tissue when contact is made. May be fatal.  
**INHALATION LC<sub>50</sub>:** May cause irritation to the respiratory system. Prolonged inhalation may be harmful

## CARCINOGENICITY

**Notes:** Nitrites may react with organic amines in the body to form carcinogenic nitrosamines.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Toxic to aquatic life.  
**BIOACCUMULATION/ACCUMULATION:** Not yet Determined  
**AQUATIC TOXICITY (ACUTE):** Harmful to aquatic life.  
**GENERAL COMMENTS: Persistence/Degradability:** Not yet determined.

**Mobility:** Sodium Nitrite: -3.7 (Partition coefficient)

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**Other adverse effects:** Not yet determined.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Product should be disposed in an environmentally safe manner in accordance with local, state and federal regulations.

**PRODUCT DISPOSAL:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

**EMPTY CONTAINER:** 'Empty' containers retain residue (liquid and/or vapor) and may be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. 'Empty' drums should be completely drained, properly bunged and should be disposed of in an environmentally safe manner and in accordance with local, state and governmental regulations. For work on tanks, please refer to Occupational Safety and Health Administration regulations. ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other governmental and industrial contemplated operations.

**RCRA/EPA WASTE INFORMATION:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** NOT DOT REGULATED AS PACKAGED

**TECHNICAL NAME:** Plasma Quench 44

**PRIMARY HAZARD CLASS/DIVISION:** None

**OTHER SHIPPING INFORMATION:** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

#### ROAD AND RAIL (ADR/RID)

**PROPER SHIPPING NAME:** Not regulated.

#### AIR (ICAO/IATA)

**SHIPPING NAME:** Not regulated.

#### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not regulated.

**NOTE:** This material may meet the definition of a marine pollutant.

#### CANADA TRANSPORT OF DANGEROUS GOODS

**SHIPPING NAME:** Not regulated.

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Fire hazard, Immediate (acute) health hazard.

**313 REPORTABLE INGREDIENTS:** Sodium Nitrite

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## EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Sodium Nitrite	10 - 20	7632-00-0

## CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Wt.%	CERCLA RQ
Sodium Nitrite	10 - 20	100

## TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS	TSCA SECTION
Sodium Nitrite	7632-00-0	
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	12b,

**TSCA REGULATORY:** Listed

## REGULATIONS

**STATE REGULATIONS:** Check state and local regulations.

**CALIFORNIA PROPOSITION 65:** This product does not contain any Proposition 65 chemicals.

**CLEAN WATER ACT:** CWA - Hazardous substances.

## 16. OTHER INFORMATION

**APPROVED BY:** TOM SICKEL    **TITLE:** PRESIDENT

**PREPARED BY:** TOM SICKEL    **Date Revised:** 01/05/2016

**INFORMATION CONTACT:** STEVE SICKEL

**REVISION SUMMARY:** This SDS replaces the 01/05/2016 SDS.

## HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	X

## ADDITIONAL SDS INFORMATION: ABBREVIATION AND ACRONYMS:

ACGIH- American Conference of Government Industrial Hygienists

CAS- Chemical Abstract Service number

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DOT- U.S. Department of Transportation

IDLH- Immediately dangerous to life and health

N.A.- Not Available

NIOSH- National Institute of Occupational Safety and Health

NTP- *National Toxicology Program*

OSHA- Occupational Safety and Health Administration

PEL- Permissible exposure Limit

ppm- Parts per million

RRA- Resource Conservation and Recovery Act

TLV- Threshold Limit Value

TSCA- Toxic Substances Control Act

**MANUFACTURER DISCLAIMER:** This information on this SDS was obtained from sources which we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS may not be applicable. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.