

**MATERIAL SAFETY DATA SHEET**

OSHA FORM 174

may be used to comply with OSHA Hazard  
Communication Standard ( 29 CFR 1910.1200 )  
Consult OSHA standard for specific requirements

**PUROCHEM, INC.**  
**1203 AMBASSADOR BLVD.**  
**ST. LOUIS, MO 63132**

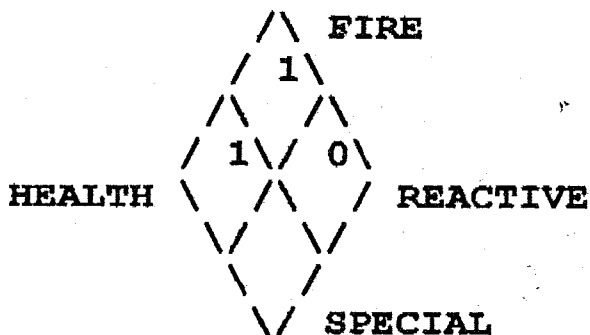
**PHONE NUMBER:**  
**( 800 ) 752-7657 Toll Free DAY TIME ONLY**

Date Of Issue:5/01

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**HAZARD RATINGS:**

4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT



TRADE NAME OF PRODUCT :

**Metal Craft Surface Prep Cleaner**

FAMILY OF PRODUCT:

**Water Base Degreaser**

FORMULA:

**Liquid Mixture**

DOT HAZARD CLASS:

**Not Regulated**

\*\*\*\*\* SECTION II - HAZARDOUS INGREDIENTS \*\*\*\*\*

| Substance                       | CAS Reg. Number | Approximate Percentage | OSHA    |         | ACGIH |      | Carcinogenicity |  |  |
|---------------------------------|-----------------|------------------------|---------|---------|-------|------|-----------------|--|--|
|                                 |                 |                        | PEL     | TLV     | NTP   | IARC | OSHA            |  |  |
| Ethoxylated Nonylphenol         | 9016-45-9       | 1-5                    | N/A     | N/A     | N     | N    | N               |  |  |
| Dipropylene Glycol Methyl Ether | 34590-94-8      | 5-10                   | 100 ppm | 100 ppm | N     | N    | N               |  |  |
| 2-Propanol (Isopropyl Alcohol)  | 67-63-0         | 1-5                    | 980 ppm | 985 ppm | N     | N    | N               |  |  |

NOTE: SARA 313 TOXIC CHEMICALS, IF PRESENT, ARE PRECEDED BY A \*

This product contains no other components considered hazardous according to the criteria of 29 CFR 1910.1200

\*\*\*\*\* SECTION III - PHYSICAL DATA \*\*\*\*\*

Boiling point (°F): 212  
 Vapor pressure (mmHg): Not Det.  
 Vapor density (air=1): Not Det.  
 Solubility in water: Complete  
 Appearance / Odor: Clear Liquid with a Citrus Odor  
 Specific Gravity: .99-1.01  
 % Volatile (volume %): >90  
 Evaporation rate (water=1): <1  
 pH:

\*\*\*\*\* SECTION IV - FIRE AND EXPLOSION DATA \*\*\*\*\*

Flash Point (°F): 100 F. minimum (TCC) due to alcohol content.  
 Extinguishing media: Product does not support combustion.  
 Special fire fighting procedures: None  
 Unusual Fire / explosion hazard: None

\*\*\*\*\* SECTION V - HEALTH HAZARD DATA\*\*\*\*\*

Threshold limit value: Not Established

Effects of Overexposure to Concentrate:

Eyes: Irritating to eyes, May cause irritation and redness, possible burns.  
Skin: Repeated or prolonged exposure to the concentrated product may cause skin irritation, defatting of the skin and possible dermatitis.  
Ingestion: May cause burns to the mouth, lips and stomach. Intestinal irritation.  
Inhalation: May be irritating to the airways and lungs, depending on amount and duration of exposure. People with asthma or other lung problems may be more susceptible to inhalation of this product.

Emergency first aid procedures:

Eyes: Flush at once with cool, running water. Remove contact lenses. Holding eyelids apart, continue flushing for 15 minutes.  
Skin: Wash skin with soap and water. Wash contaminated clothing before reuse.  
Ingestion: Rinse mouth; then drink 1 or 2 glasses of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.  
Inhalation: Move person to fresh air.

\*\*\*IF IRRITATION PERSISTS, CALL A PHYSICIAN OR POISON CONTROL CENTER\*\*

\*\*\*\*\* SECTION VI - REACTIVITY DATA\*\*\*\*\*

Stability: Stable                      Conditions to avoid: Excessive Heat, Sparks, Open Flames.  
Incompatibility: Strong acids and oxidizers.  
Hazardous decomposition products: Thermal decomposition may yield carbon monoxide and carbon dioxide and other unknown by-products of combustion.  
Hazardous polymerization: Will not occur.

\*\*\*\*\* SECTION VII - SPILL OR LEAK PROCEDURES\*\*\*\*\*

Steps to be taken if material is released or spilled: USE PROPER PROTECTIVE EQUIPMENT WHEN CLEANING UP SPILLS! Small spills may be mopped up and rinse area with water, or soaked up on an inert absorbant. Large spills should be contained and pumped into containers for proper disposal, or soaked up on a inert absorbant and put into container for proper disposal.

Waste disposal method: IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS

\*\*\*\*\* SECTION VIII - SPECIAL PROTECTION INFORMATION\*\*\*\*\*

Respiratory protection: Use with adequate ventilation.  
Ventilation - Local exhaust: Ventilate to maintain exposure below limits.  
- Mechanical: Not necessary under normal conditions of use.  
Protective gloves: Rubber gloves for repeated or prolonged contact with skin.  
Eye protection: Splash proof glasses or goggles if possible contact can occur.  
Other protective equipment: None required under normal conditions of handling.

\*\*\*\*\* SECTION IX - SPECIAL PRECAUTIONS\*\*\*\*\*

Precaution for handling and storage: Store in a cool place away from Heat, Sparks and Open Flames. Keep out of the reach of children.  
Other precautions: The user of any chemical products should be aware of the potential hazards, known and unknown, and their effect on the human system. We strongly urge that all users minimize their exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

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The data contained herein is drawn from recognized sources and believed to be accurate as of the date of issue. This information is intended for use by persons who have or should obtain professional knowledge and experience in the subjects discussed, and is presented only for your evaluation of the suitability of this product for your use, and for compliance with federal and state regulations. The manufacturer makes no warranty, expressed or implied, and disclaims all liability for the accuracy, completeness, and reliability of any information contained herein.



**Metalcraft Inc.**  
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Dear Customer:

As required by enacted OSHA Regulations, we are enclosing a copy of the Material Safety Data Sheet pertaining to cleaning solution. The cleaning solution you have purchased from Metalcraft is in the same chemical state as when purchased from the producer. Metalcraft has obtained the enclosed Material Safety Data Sheet from the producer of this product. Metalcraft has been advised that the MSD Sheet meets the requirements of OSHA Regulation 29CFR 1920 1200 Hazard Communication Standard, Employee Right to Know.

In general, as a purchaser of certain chemicals that have been defined by the above OSHA standard as being hazardous, you may have responsibilities in communicating this information to your employees and other persons in your workplace as well as implementing your own hazard communication program. Metalcraft believes it is important that the Material Safety Data Sheet be given to people who are responsible for implementing your hazard communication program.

If you have any questions concerning OSHA Regulations we encourage you to review the requirements of these regulations and, if necessary, to contact others whom you deem appropriate to advise you concerning the regulations.

As new information or Material Safety Data Sheets become available to Metalcraft we will forward them to you. If you have a particular department or person you want this information directed to, please let us know.

If you have any questions about the products sold by Metalcraft or the information provided on the Material Safety Data Sheet, please do not hesitate to contact our customer service staff at 800-437-5283.

Sincerely,

Steve A. Doerfler  
VP of Sales & Marketing

SAD/jlt  
Enclosure