



# SAFETY DATA SHEET



**Multi-Surface Concentrate**

DM20074

Prepared to U.S. OSHA, ANSI, & Canadian WHMIS Standards

## SECTION 1. PRODUCT IDENTIFICATION

### 1.1 TRADE NAME (AS LABELED):

**Multi-Surface Concentrate**

SYNONYMS:

None

CAS#:

Mixture

### 1.2 PRODUCT USE:

Cleaning agent

CHEMICAL SHIPPING NAME/CLASS:

Non-Regulated Material

U.N. NUMBER:

None

### 1.3 NORTH AMERICA:

MANUFACTURER'S NAME:

**Tennant Company**

ADDRESS:

701 North Lilac Drive, P.O. Box 1452, Minneapolis, MN 55440-1452

BUSINESS PHONE:

1-763-540-1200

EMAIL:

[info@tennantco.com](mailto:info@tennantco.com)

WEB SITE INFORMATION:

[www.orbio.com](http://www.orbio.com)

### 1.4 EMERGENCY PHONE NUMBERS:

1-800-424-9300 (CHEMTREC – 24 Hrs)

DATE OF CURRENT REVISION:

March 25, 2014

DATE OF LAST REVISION:

New

## SECTION 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a clear colorless liquid with no odor.

**Health Hazards:** Under normal conditions of intended use this material does not pose a risk to health. Eye contact or prolonged skin contact may cause irritation.

**Flammability Hazards:** This product is a Non-Flammable liquid.

**Reactivity Hazards:** None known

**Environmental Hazards:** The Environmental effects of this product have not been investigated. Release of this product is not anticipated to have adverse effects in the aquatic environment.

US DOT SYMBOL(S)

CANADA (WHMIS) SYMBOL(S)

GHS Hazard Symbol(s)

Non-Regulated Material



Signal Word: **Warning!**

### 2.1 GHS LABELING AND HAZARD CLASSIFICATION:

This product does meet the definition of a hazardous substance or preparation as defined by the OSHA and described in 29 CFR 1910.1200(d)

#### Component(s) Contributing to Classification(s)

Sodium Hydroxide

### 2.2 LABEL ELEMENTS

#### GHS Hazard Classification(s):

Skin Irritant Category 2

Eye Irritant Category 2

#### Hazard Statement(s):

Causes skin irritation

Causes serious eye irritation

#### Precautionary Statement(s):

Wash hands thoroughly after handling

Use personal protective equipment as required

### 2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

#### **ACUTE:**

**INHALATION:** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**CONTACT WITH SKIN:** Under normal conditions of intended use, this material is not expected to be a skin hazard. Prolonged exposure may cause skin irritation.

**EYE CONTACT:** Contact with eyes may cause irritation with redness and tearing.



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**INGESTION:** Under normal conditions of intended use, this material is not expected to be an ingestion hazard. Ingestion may cause gastrointestinal irritation.

**CHRONIC:** None known

**TARGET ORGANS: Acute:** Skin, Eyes

**Chronic:** None known

### SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPOSITION	WT. PERCENTAGE	CAS#	HAZARD CLASSIFICATION
Water	99.80%	7732-18-5	None
Sodium Hydroxide	0.20%	1310-73-2	[Xi] Irritant
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).			

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format.

### 4. FIRST-AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES:

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If this product is swallowed, call physician or poison control center for treatment advice. Do not induce vomiting unless told to do so by a poison control center or physician. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If transporting take a copy of the label and/or SDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known

#### 4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with eyes may cause irritation with redness and tearing. Prolonged skin exposure may cause mild irritation.

#### 4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

### SECTION 5. FIRE-FIGHTING MEASURES

#### 5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes                      Carbon Dioxide: Yes

Foam: Yes                                Dry Chemical: Yes

Halon: Yes                                Other: Any "C" Class

#### 5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

Not considered a fire or explosion hazard.

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

**FLASH POINT:** Non-Flammable

**AUTOIGNITION TEMPERATURE:** Not Applicable

**FLAMMABLE LIMITS (in air by volume, %):** Lower NA Upper NA

#### 5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

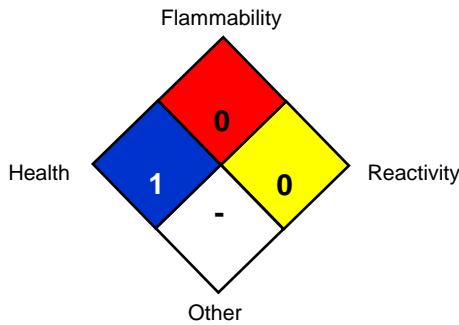


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### NFPA RATING SYSTEM



### HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)	1		
FLAMMABILITY HAZARD (RED)	0		
PHYSICAL HAZARD (YELLOW)	0		
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See Section 8.2 for Exposure Controls

### 6.2 ENVIRONMENTAL PRECAUTIONS:

Keep spilled material out of all sewers and open bodies of water.

### 6.3 SPILL AND LEAK RESPONSE:

Stop the flow of material, if this can be done safely. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces. (see Section 13, Disposal Considerations).

## SECTION 7. HANDLING and STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

### 7.2 STORAGE AND HANDLING PRACTICES:

Store in original container. Store in sealed containers to maintain efficacy of solution. See technical bulletin for specific container storage information.

### 7.3 SPECIFIC USES:

Various uses

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

### 8.2 EXPOSURE CONTROLS:

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada.*

**RESPIRATORY PROTECTION:** Not required when using this product. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.



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**EYE PROTECTION:** Safety glasses or goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Standards of Canada.

**HAND PROTECTION:** Chemical resistant gloves are recommended to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Not normally required when using this product. If necessary, refer to appropriate Standards of Canada, or appropriate U.S. OSHA Standards described in 29 CFR 1910.136.

## SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE (Physical State) and COLOR:** Clear colorless liquid with no odor

**ODOR:** No odor

**ODOR THRESHOLD:** Not Applicable

**pH:** 12.2 – 12.49

**MELTING/FREEZING POINT:** 32°F (0°C)

**BOILING POINT:** 212°F (100°C)

**FLASH POINT:** Not Applicable

**EVAPORATION RATE (n-BuAc=1):** Not Available

**FLAMMABILITY (SOILD, GAS):** Not Applicable

**UPPER/LOWER FLAMMABILITY OR EXLOSION LIMITS:** Not Applicable

**VAPOR PRESSURE (mm Hg @ 20°C (68°F):** Not Available

**VAPOR DENSITY:** Not Available

**RELATIVE DENSITY:** Not Available

**SPECIFIC GRAVITY:** Not Available

**SOLUBILITY IN WATER:** Soluble

**WEIGHT PER GALLON:** Not Available

**PARTITION COEFFICIENT (n-octanol/water):** Not Available

**AUTO-IGNITION TEMPERATURE:** Not Applicable

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** 0.001 Pas @ 20°C

### 9.2 OTHER INFORMATION:

No additional information available

## SECTION 10. STABILITY and REACTIVITY

### 10.1 REACTIVITY:

None known

### 10.2 STABILITY:

Stable under conditions of normal storage and use.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

### 10.4 CONDITIONS TO AVOID:

Avoid freezing and excessive temperatures

### 10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

None known

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include oxides of carbon

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

#### **TOXICITY DATA:**

Sodium Hydroxide CAS# 1310-73-2

Draize test, rabbit, eye: 400 ug Mild

Draize test, rabbit, eye: 1% Severe

Draize test, rabbit, eye: 50 ug/24H Severe



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Draize test, rabbit, eye: 1 mg/24H Severe

Draize test, rabbit, skin: 500 mg/24H Severe

**SUSPECTED CANCER AGENT:** Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

**IRRITANCY OF PRODUCT:** This product is not irritating to skin, eyes or respiratory system.

**SENSITIZATION TO THE PRODUCT:** This product is not a skin and respiratory sensitizer

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product and its components on the human reproductive system.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 TOXICITY:

No toxicity data available

### 12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

### 12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

### 12.4 MOBILITY IN SOIL:

No specific data available on this product.

### 12.5 OTHER ADVERSE EFFECTS:

This product is not expected to be harmful to plants, animals or aquatic life.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, and those of Canada

## SECTION 14. TRANSPORTATION INFORMATION

### US DOT, IATA, IMO, ADR:

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

**14.1 UN IDENTIFICATION NUMBER:** None

**14.2 PROPER SHIPPING NAME:** Non-Regulated Material

**14.3 HAZARD CLASS NUMBER and DESCRIPTION:** None

**14.4 PACKING GROUP:** NA

**DOT LABEL(S) REQUIRED:** None

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** None

**14.5 ENVIRONMENTAL HAZARDS: (RQ QUANTITY)** None

**MARINE POLLUTANT:** The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**14.6 SPECIAL PRECAUTION FOR USER:** None

**INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):** This product is not considered as dangerous goods.

**INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO):** This product is not considered as dangerous goods.

## SECTION 15. REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

#### UNITED STATES REGULATIONS:

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.



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**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** Sodium Hydroxide CAS# 1310-73-2 1,000 Lbs RQ

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** This chemical is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** Ingredients within this product are not on the Proposition 65 Lists.

### CANADIAN REGULATIONS:

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**OTHER CANADIAN REGULATIONS:** Not applicable.

### CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This product is Class E, Corrosive Material, per WHMIS Controlled Product Regulations

## SECTION 16. OTHER INFORMATION

### ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

**PREPARED BY:** Paul Eigbrett – **(GHS MSDS Compliance PLUS)**

**DATE OF PRINTING:** March 25, 2014

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Tennant Company assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Tennant Company assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

**END OF SDS SHEET**