

# SAFETY DATA SHEET

Date Prepared : 1/15/2015

SDS No : X05

## Formula X05

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Formula X05

**GENERAL USE:** Cleaner/degreaser for heavy industrial soils.

**PRODUCT DESCRIPTION:** RTU Heavy Duty Spray Cleaner

**PRODUCT CODE:** X05

**CHEMICAL FAMILY:** Solvent/detergent blend

#### MANUFACTURER

MISCO Products Corporation

1048 Stinson Drive

Reading, PA 19605

**Emergency Phone:** 610-926-4106

**Customer Service:** 800-548-4568

**Transportation:** 800-548-4568

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEM-TEL (Medical and Transportation):** 800-255-3924

**POISON CONTROL CENTER (Medical):** 800-222-1222

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Eye Irritation, Category 2A

Skin Irritation, Category 3

#### GHS LABEL



Exclamation  
mark

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS

H319: Causes serious eye irritation.

H316: Causes mild skin irritation.

H303: May be harmful if swallowed.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

P273: Avoid release to the environment.

P262: Do not get in eyes, on skin, or on clothing.

P233: Keep container tightly closed.

P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

##### Storage:

P404: Store in a closed container.

**Disposal:**

P501: Dispose of contents/container in accordance with local, state and federal regulations.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Green liquid

**IMMEDIATE CONCERNS:** Eye & Skin irritant

**POTENTIAL HEALTH EFFECTS**

**EYES:** Irritating, and may injure eye tissue if not removed promptly.

**SKIN:** Skin irritant with prolonged or repeated contact.

**SKIN ABSORPTION:** None Expected.

**INGESTION:** Although of moderate to low toxicity, ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea, and possible death.

**INHALATION:** Mist is irritating to nose, throat and lungs.

**REPRODUCTIVE TOXICITY**

**TERATOGENIC EFFECTS:** None known.

**CARCINOGENICITY:** Not Established

**MUTAGENICITY:** None known.

**MEDICAL CONDITIONS AGGRAVATED:** Previous skin conditions such as dermatitis may be aggravated.

**ROUTES OF ENTRY:** Breathing of mist or vapors. Ingestion.

**CANCER STATEMENT:** None

**WARNING CAUTION LABELS:** Irritant

**PHYSICAL HAZARDS:** None Expected.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Ethylene glycol butyl ether	0 - 5	111-76-2
Nonylphenol Ethoxylate	0 - 2	9016-45-9
Sodium Dodecylbenzene Sulfonate	0 - 5	25155-30-0
Fatty acids, tall-oil, sodium salts	0 - 5	61790-45-2
Monoethanolamine	0 - 5	141-43-5
Sodium Silicate	0 - 5	6834-92-0
Dye	< 0.1	N/A
Fragrance	< 0.5	N/A
Water	80 - 85	7732-18-5

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Burning sensation with tearing, redness.

**SKIN:** Prolonged contact will cause irritation marked by redness, burning sensation.

**SKIN ABSORPTION:** Not Established

**INGESTION:** Irritation of mouth, throat, along with stomach upset, vomiting.

**INHALATION:** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

**ACUTE TOXICITY:** Not Established

#### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** NA = Not Applicable

**GENERAL HAZARD:** NA = Not Applicable

**EXTINGUISHING MEDIA:** Not required. Water based material.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid walking in product. Wipe up or otherwise flush small spills to sanitary sewer.

**LARGE SPILL:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

##### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Avoid discharges into open waterways.

**LAND SPILL:** Avoid discharge to soil.

**GENERAL PROCEDURES:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

**SPECIAL PROTECTIVE EQUIPMENT:** Eye protection, rubber gloves, rubber boots to protect feet.

#### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Close container after use.

**HANDLING:** Wear eye protection, rubber gloves when handling concentrate.

**STORAGE:** Store in area inaccessible to children.

**STORAGE TEMPERATURE:** Store at ambient temperatures.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethylene glycol butyl ether	TWA	50	240	20	97	NL	NL
	STEL					NL	NL
Monoethanolamine	TWA	3	6	3	7.5	NL	NL
	STEL			6	15	NL	NL

**ENGINEERING CONTROLS:** Provide mechanical ventilation when used in confined areas, or areas with poor ventilation.

##### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical splash goggles and full face-shield.

**SKIN:** Rubber or other chemical resistant gloves. Rubber boots of used on floors.

**PROTECTIVE CLOTHING:** Chemical resistant outerwear (tyvek) if contact with spray or mist is anticipated.

**WORK HYGIENIC PRACTICES:** Wash with soap and water after handling. Do not eat, drink or smoke while using product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid  
**ODOR:** Sassafras  
**ODOR THRESHOLD:** Not Established  
**COLOR:** Light Green  
**pH:** 12.0 to 13.0  
**PERCENT VOLATILE:** 85+  
**FLASH POINT AND METHOD:** None  
**FLAMMABLE LIMITS:** N/A  
**AUTOIGNITION TEMPERATURE:** NA = Not Applicable  
**VAPOR PRESSURE:** ≤ 20 mm Hg at (68°F)  
**VAPOR DENSITY:** ≤ 1  
**BOILING POINT:** ~ 100°C (212°F)  
**FREEZING POINT:** ~ 0°C (32°F)  
**MELTING POINT:** Not Available  
**THERMAL DECOMPOSITION:** Not Available  
**SOLUBILITY IN WATER:** Complete  
**EVAPORATION RATE:** (Water =1) 1.0  
**DENSITY:** 8.4 at (68°F)  
**SPECIFIC GRAVITY:** 1.007 grams/ml.  
**VISCOSITY:** Water thin.  
**(VOC):** 3.940 % by weight

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Stable  
**HAZARDOUS POLYMERIZATION:** No  
**CONDITIONS TO AVOID:** Not Established  
**POSSIBILITY OF HAZARDOUS REACTIONS:** None Expected.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.  
**INCOMPATIBLE MATERIALS:** Strong acids, oxidizers.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Ethylene glycol butyl ether	1300 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 3.1 mg/l
Nonylphenol Ethoxylate	16000 mg/kg (rat)	4490 mg/kg (rabbit)	
Sodium Dodecylbenzene Sulfonate	438 mg/kg (rat)		
Monoethanolamine	1089 mg/kg (rat)	2504 mg/kg (rabbit)	~ 1.48 mg/l
Sodium Silicate	1500 to 3200 mg/kg (rat)		

**EYES:** Not Established

**DERMAL LD<sub>50</sub>:** Not Established

**SKIN ABSORPTION:** None Expected.

**ORAL LD<sub>50</sub>:** Not Established

**INHALATION LC<sub>50</sub>:** Not Established

**EYE EFFECTS:** Moderate to severe eye irritant.

**SKIN EFFECTS:** Moderate skin irritant.

**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status	OSHA Status
Ethylene glycol butyl ether	No listed substance	Group 3 - Not classifiable as to its carcinogenicity to Humans	No listed substance

**IRRITATION:** Irritant

**SENSITIZATION:** No known significant effects or critical hazards.

**MUTAGENICITY:** No known significant effects or critical hazards.

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** Not Established

**ECOTOXICOLOGICAL INFORMATION:** Not Established

**AQUATIC TOXICITY (ACUTE):** Not Established

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Small amounts (less than 5 gallons) may be disposed of in sanitary sewer. Consult local authorities for additional disposal information.

**FOR LARGE SPILLS:** Consult with local and state authorities for large volume disposal.

**PRODUCT DISPOSAL:** See above.

**EMPTY CONTAINER:** Rinse container with clear water. Offer container for recycling, or dispose of in trash.

**RCRA/EPA WASTE INFORMATION:** NA = Not Applicable

**14. TRANSPORT INFORMATION**

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Cleaning Compound, not regulated.

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

**PROPER SHIPPING NAME:** Cleaning Compound, not regulated.

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Cleaning Compound, not regulated.

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Cleaning Compound, not regulated.

**15. REGULATORY INFORMATION**

**UNITED STATES**

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

**311/312 HAZARD CATEGORIES:** Health - Acute

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

**313 REPORTABLE INGREDIENTS:** 2-butoxyethanol 111-76-2 (Category: N230 Certain Glycol Ethers)

**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS
Ethylene glycol butyl ether	0 - 5	111-76-2

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** NA = Not Applicable

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** NA = Not Applicable

Chemical Name	Wt.%	CERCLA RQ
Sodium Dodecylbenzene Sulfonate	0 - 5	1000 lbs.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All ingredients are listed on the TSCA Chemical Inventory.

**STATES WITH SPECIAL REQUIREMENTS**

Chemical Name	Requirements
Ethylene glycol butyl ether	Massachusetts Right to Know Substance Pennsylvania Right to Know Substance New Jersey Right To Know Substance
Nonylphenol Ethoxylate	Massachusetts Right to Know Substance New Jersey Right To Know Substance Pennsylvania Right to Know Substance
Sodium Dodecylbenzene Sulfonate	New Jersey Right To Know Substance Pennsylvania Right to Know Substance New York Right to Know Substance
Monoethanolamine	Massachusetts Right to Know Substance New Jersey Right To Know Substance New York Right to Know Substance Pennsylvania Right to Know Substance
Sodium Silicate	Pennsylvania Right to Know Substance New Jersey Right To Know Substance

**CALIFORNIA PROPOSITION 65:** None

**CARCINOGEN:**

The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of 2-butoxyethanol in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans).

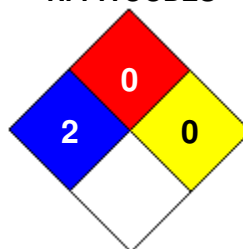
**16. OTHER INFORMATION**

**Date Prepared:** 1/15/2015

**HMIS RATING**

<b>HEALTH</b>	<input type="text" value="2"/>
<b>FLAMMABILITY</b>	<input type="text" value="0"/>
<b>PHYSICAL HAZARD</b>	<input type="text" value="0"/>
<b>PERSONAL PROTECTION</b>	<input type="text" value="B"/>

**NFPA CODES**



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