



7/14/2015

## Safety Data Sheet

Dynaflux SDS 385B 4/22/2014

Product: 385 Rust Remover (Liquid)

**Part 1: Product and Company Identification**

Identification 385B

Trade Name: 385 Rust Remover

Product Use: Removes rust and phosphatizes metal surfaces

Manufacturers Name: Dynaflux, Inc.

241 Brown Farm Rd.

Cartersville, GA 30120 U.S.A.

Emergency Telephone Number: For U.S.: 800-255-3924 International: 813-248-0585

**Part 2: Hazardous Ingredients**Signal Word: **DANGER****H290:** May be corrosive to metals**H314:** Causes severe skin burns and eye damage.

Ingredient	CAS Number	Content	OSHA PEL (ppm)	ACGIH TLV (ppm)
Phosphoric acid	7664-38-2	30-60%	1mg/m3	1mg/m3
2-Butoxyethanol	111-76-2	1-5%	25ppm	20ppm

**Part 3: Hazards Identification****Potential Acute Health Effects:**

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive). Slightly hazardous in case of inhalation (lung sensitizer). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects:**

**CARCINOGENIC EFFECTS:** Not available. **MUTAGENIC EFFECTS:** Not available. **TERATOGENIC EFFECTS:** Not available. **DEVELOPMENTAL TOXICITY:** Not available. The substance may be toxic to blood, liver, skin, eyes, bone marrow. Prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

**Part 4: First Aid Measures****Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. **GHS Category 2**

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. **GHS Category 2**

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Serious Inhalation:**

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. **GHS Category 4**

**Part 5: Fire Fighting Measures****Extinguishing media**

Use extinguishing media appropriate for surrounding fire.

**Special firefighting procedures**

Use water to keep fire-exposed containers cool and disperse vapors.

**Specific hazards**

Could develop highly toxic or corrosive fumes if heated. Could form toxic or explosive vapors in contact with certain metals.

May ignite other combustible materials.

**Protective measures in the event of fire**

Firefighters exposed to combustion gases/decomposition products should use a respiratory protective device.

**Part 6: Accidental Release Measures****Small Spill:**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

**Large Spill:**

Corrosive liquid. Poisonous liquid. Absorb with DRY earth, sand or other non-combustible material.

Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Neutralize the residue with a dilute solution of sodium carbonate. Dispose of in accordance with all federal, state, provincial and local regulations.

**Part 7: Handling and Storage****Usage precautions**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and/or high concentrations.

**Storage precautions**

Could attack some plastics, rubber and coatings. Keep in cool, dry, ventilated storage and closed containers.

**Storage criteria** Storage of corrosives.

**Part 8: Exposure Control / Personal Protection**

**Ventilation** Provide adequate general and local exhaust ventilation.

**Respirators** If ventilation is insufficient, suitable respiratory protection must be provided. Gas cartridge (acid gases).

**Protective gloves** Use protective gloves made of impermeable material. Neoprene. Nitrile.

**Eye protection** Wear splash proof eye goggles to prevent any possibility of eye contact. Contact lenses should not be worn when working with this chemical!

**Other protection** Provide eyewash, drench quickly. Wear appropriate clothing to prevent any possibility of skin contact.

**Hygienic work practices** Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Change work clothing daily if contamination is likely to occur. Promptly remove any wet or contaminated clothing.

## Part 9: Physical and Chemical Properties

**Appearance :** Clear fluid

**Color:** Red

**Odor:** Odorless or slight butyl odor.

**Solubility:** Miscible with water.

**Boiling point:** (°C, interval) 100

**Specific Gravity:** (g/ml) 1.26 - 1.28 Temperature (°C) 20

**pH-value:** diluted solution 1.5-2.5 Concentration

## Part 10: Stability and Reactivity

**Stability:** Stable

**Materials to avoid:** Bases, alkalis (inorganic). Massive, solid metal. Powdered metal.

## Part 11: Toxicological Information

**GENERAL HEALTH HAZARDS:** This substance is corrosive. The corrosive properties are the main hazards in industrial use.

**INHALATION:** Gas or vapor is harmful on prolonged exposure or in high concentration. **SKIN CONTACT:** Causes burns.

**EYE CONTACT:** Causes burns. Splashing can damage the eyes.

**INGESTION:** Could cause burns in mucous membranes, throat, esophagus and stomach.

## Part 12. Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

## Part 13: Disposal Consideration

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Part 14: Transportation Information

**Domestic (Land, D.O.T.)**

**DOT Hazard Classification:** 4x1 gallon Case: **CONSUMER COMMODITY ORM-D, 48580 SUB 3**

55 gallon drum: **CORROSIVE LIQUID, N.O.S., (PHOSPHORIC ACID) 8, UN1760, III**

## Part 15: Regulatory Information

**US FEDERAL**

**TSCA**

CAS# 7664-38-2 is listed on the TSCA inventory.

CAS# 111-76-2 is listed on the TSCA inventory.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

CAS# 7664-38-2: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

**SARA Codes**

CAS # 7664-38-2: immediate.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

**Clean Water Act:**

CAS# 7664-38-2 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**Part 16: Other Information**

Dynaflux, Inc.

241 Brown Farm Rd.

Cartersville, GA 30120 U.S.A.

Completed by: Eugene Schaffstall

**Disclaimer of Expressed and implied Warranties:**

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date of the Safety Data sheet was prepared. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices as specified on the label copy.