

SUPPLY MATERIAL SAFETY DATA SHEET

PRODUCT: X-Solve

Page 1 of 3



MSDS Date: August 2, 2013

Emergency Contact: 1-800-424-9300

SECTION 1

PRODUCT NAME: X-Solve

CHEMICAL NAME: Mixture

CHEMICAL FAMILY: Mixture

DOT SHIPPING INFORMATION: UN 2586

SECTION II-HAZARDOUS INGREDIENTS

This material contains no ingredients which are known to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w%	EXPOSURE LIMITS IN AIR
dodecylbenzenesulfonic acid	27176-87-0	<10%	
2-Butoxyethanol	111-76-2	<30%	
alcohols, c9-12, ethoxylated	68551-12-2	<10%	
EDTA	94108-75-5	<10%	
Isopropyl alcohol	67-63-0	<10%	

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III-PHYSICAL DATA

BOILING POINT (F): 225°F

SPECIFIC GRAVITY: About 1.05

VAPOR PRESSURE (mmHg): ND

% VOLATILE BY VOLUME: Unknown

VAPOR DENSITY (air =1): >1

EVAPORATING RATE: Unknown

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Light Blue, alcohol odor

SECTION IV-FIRE AND EXPLOSION DATA

FLASH POINT: >200°F

FLAMMABLE LIMITS: Lel: N/A Uel: N/A

EXTINGUISHING MEDIA: Use any.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear goggles and self-contained breathing apparatus. Use water to keep fire-exposed containers cool and to flush spills away from fire. In h case of large fires also cool surrounding equipment and structures with water.

MATERIAL SAFETY DATA SHEET

PRODUCT: X-Solve

Page 2 of 3



SECTION V—REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Contact with all forms of ignition spark or flame.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Strong Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Highly toxic fumes of sulfur oxides.

SECTION VI—ENVIRONMENTAL AND DISPOSAL INFORMATION:

CAUTION: Use appropriate protective and safety equipment. See Section VIII of this Material Safety Data Sheet for handling precautions.

SMALL SPILL: Slowly neutralize with diluted soda ash or lime to pH 6-9. If soda ash is used, provide adequate ventilation to dissipate the carbon dioxide gas. Mop up or soak up with non-combustible absorbent inorganic material. transfer to DOT-approved container.

LARGE SPILL: Contain by diking with a non-combustible absorbent inorganic material. Prevent runoff from entering sewers, storm drains, surface water, and soil. Slowly neutralize with diluted soda ash or lime to pH 6-9. If soda ash is used, provide adequate ventilation to dissipate the carbon dioxide gas. Transfer contaminated absorbent to a DOT-approved container.

WASTE DISPOSAL INFORMATION: Consult appropriate federal, state, and local regulatory agencies to ascertain proper disposal procedures.

NOTE: Comply with all applicable government regulations on spill reporting and handling and disposal of waste. Empty containers can have residues, gases, and mists and are subject to proper disposal.

SECTION VII—HEALTH HAZARD DATA:

BREATHED: Vapors and mists of component (s) are extremely corrosive to nose, throat, and mucous membrane. The effects include: irritation, coughing, chest pain, difficulty in breathing bronchitis, pulmonary edema, and chemical pneumonitis.

SKIN CONTACT: Vapors, mists, and liquid of a component (s) at full concentration will severely burn the skin. Prolonged contact over a large area of the body may be fatal. Effects may be delayed.

SKIN ABSORPTION: Components are unlikely to be absorbed through skin in harmful concentrations.

EYE CONTACT: Vapors, mists, and liquids of a component (s) at full concentration are extremely corrosive to the eyes. Brief contacts of the vapors will be extremely irritating. Brief contact with the mist or liquid will cause severe damage to the eye.

SWALLOWED: Vapors, liquids, and mists of component (s) are extremely corrosive to the mouth and throat. Swallowing the liquid burns the tissues, causes severe abdominal pain, nausea, vomiting, and collapse. Swallowing large quantities may be fatal.

SYSTEMATIC AND OTHER EFFECTS: Breathing mists and vapors may result in varying degrees of damage affected tissues and thereby increase susceptibility to respiratory illness.

MEDICAL CONDITIONS AGGRAVATED: No medical conditions are known to be aggravated by exposure to this product.

SUSPECTED CANCER AGENT: *Federal Osha:* No *CA Osha:* No. *NTP:* No *IARC:* No

TARGET ORGANS: Other than those implied by routes of entry (i.e., breathed, includes respiratory tract and lungs) are capitalized.

MATERIAL SAFETY DATA SHEET

PRODUCT: X-Solve

Page 3 of 3



SECTION VIII-FIRST AID:

BREATHED: Remove victim to fresh air at once. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Keep victim warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

SKIN: Wash skin immediately with lots of soap and water. If clothes and shoes are contaminated, remove and wash before reuse. Get medical attention if ill effect or irritation develops.

EYES: Wash eyes immediately with running water for at least 15 minutes. Use fingers to assure that eyelids are separated and that eye is being washed. Lift the lower and upper lid occasionally. GET IMMEDIATE MEDICAL ATTENTION.

SWALLOWED: DO NOT INDUCE VOMITING. If victim is conscious, give large amounts of water. Do not attempt to give fluids to an unconscious victim. GET IMMEDIATE MEDICAL ATTENTION.

NOT TO PHYSICIAN: Supportive Care: Treatment based on judgment of physician and response of the patient.

SECTION IX-HANDLING PRECAUTIONS:

VENTILATION: Control airborne concentrations below exposure guidelines (Section I) with MECHANICAL VENTILATION, if necessary. Local explosion-proof EXHAUST VENTILATION may be necessary for some operations.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below exposure guidelines. When respiratory protection is required for certain operations, use a NIOSH-approved canister-type respirator. In confined or poorly ventilated areas or for emergency and other conditions where the exposure guidelines may be greatly exceeded, use an approved positive-pressure, self contained breathing apparatus.

EYE PROTECTION: Contact lenses should not be used. Contact lenses may increase the severity of the injury. Suggested protection is safety glasses, but where contact with liquid is likely, chemical goggles or face shields are recommended.

SKIN PROTECTION: Impermeable gloves are recommended. When prolonged or frequently repeated contact should occur, use protective clothing. Selection of specific items such as boots, apron, or full body suit will depend on operation. Wash thoroughly after handling chemicals.

SPECIAL EQUIPMENT: Suitable safety equipment includes safety showers, eye washes, and proper fire extinguishing media.

SECTION X-STORAGE AND HANDLING:

Train all employees on special handling procedures in this section before they work with this product. Exercise reasonable care and caution. Personnel should avoid breathing vapors and/or mists and getting product in the eyes or the skin. DO NOT CONSUME food, drink, or tobacco in areas where they may become contaminated with this material. Keep containers cool, dry, and away from sources of ignition.

DO NOT STORE product in direct sunlight, high temperatures, or below freezing areas. Keep product container tightly closed when not in use. Protect containers from physical damage. Use and store with adequate ventilation. DO NOT cut, grind, weld, or drill on or near this container. Ground all equipment. Wash thoroughly after using.

SECTION XI-DOT:

PROPER SHIPPING NAME: Corrosive Mixture

HAZARD CLASS: UN 2586