

THIS MATERIAL SAFETY DATA SHEET IS "ESSENTIALLY SIMILAR" TO OSHA FORM 174 AND COMPLIES WITH CFR 1910.1200.

EMERGENCY: CHEMTREC (800) 424-9300

SECTION I PRODUCT IDENTIFICATION

NAME: ZAMBONI FIXATIVE

CATALOG#: 1459

CHEMICAL NAME: PICRIC ACID, CARBAZOTIC ACID, C.I. 10305, MELINITE; SODIUM PHOSPHATE DIBASIC, SODIUM HYDROGEN PHOSPHATE, PHOSPHORIC ACID DISODIUM SALT; PARAFORMALDEHYDE, PARAFORM, POLYOXYMETHYLENE; SODIUM PHOSPHATE MONOBASIC, SODIUM BIPHOSPHATE, PHOSPHORIC ACID MONOSODIUM SALT; SODIUM HYDROXIDE, CAUSTIC SODA, SODA LYE

SECTION II.A HAZARDOUS INGREDIENTS

NAME	%	CAS#	ACGIH (TWA/STEL)	OSHA (TWA/CEIL)
1. WATER	> 94	7732-18-5	NA	NA
2. PICRIC ACID	< 1	88-89-1	0.1 mg/m ³ / --	0.1 mg/m ³ / --
3. SODIUM PHOSPHATE DIBASIC	2-4	7558-79-4	NA	NA
4. PARAFORMALDEHYDE	< 2	30525-89-4	NA	NA
5. SODIUM PHOSPHATE MONOBASIC	< 1	7558-80-7	NA	NA
6. SODIUM HYDROXIDE	< 1	1310-73-2	2 mg/m ³ / --	2 mg/m ³ / --

SECTION II.B EMERGENCY OVERVIEW

WARNING: CONTAINS PARAFORMALDEHYDE WHICH IS KNOWN TO PRODUCE FORMALDEHYDE WHICH IS A KNOWN CARCINOGEN. FORMS VERY SENSITIVE EXPLOSIVE COMPOUND WHEN DRY. DO NOT ALLOW SOLUTIONS TO EVAPORATE COMPLETELY. CORROSIVE AND MAY CAUSE SKIN AND EYE IRRITATION. HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. AVOID CONTACT, WEAR CHEMICALLY RESISTANT GLOVES AND EYE PROTECTION, AND WORK IN HOOD OR WELL-VENTILATED AREA.

SECTION II.C HAZARDOUS INGREDIENTS REGULATORY INFORMATION

NAME	EPA#	TSCA INVENTORY	SARA INFO
1. WATER	NA	LISTED	NA
2. PICRIC ACID	NA	LISTED	313
3. SODIUM PHOSPHATE DIBASIC	NA	LISTED	NA
4. PARAFORMALDEHYDE	NA	LISTED	NA
5. SODIUM PHOSPHATE MONOBASIC	NA	LISTED	NA
6. SODIUM HYDROXIDE	NA	LISTED	NA

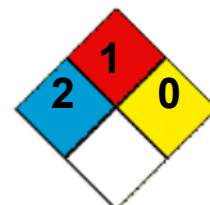
SECTION III GENERAL PHYSICAL & CHEMICAL INFORMATION ABOUT THIS PRODUCT

BOILING POINT: NA **%VOLATILES BY VOLUME:** NA
MELTING POINT: NA **SPECIFIC GRAVITY:** NA
VAPOR PRESSURE: NA **WATER SOLUBILITY:** SOLUBLE
pH AS SUPPLIED: NA **EVAPORATION RATE:** NA
PHYSICAL DESCRIPTION: SOLID () LIQUID (X) GAS () SUSPENSION () EMULSION ()
PHYSICAL APPEARANCE, ODOR, COLOR: YELLOW LIQUID; PUNGENT ODOR.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE: NO **FLASH POINT:** NA **LEL:** NA **UEL:** NA

NFPA HAZARD CLASS: **HEALTH HAZARD** 2 **0 = LEAST**
FLAMMABILITY 1 **1 = SLIGHT**
REACTIVITY 0 **2 = MODERATE**
OTHER **3 = HIGH**
4 = EXTREME



EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY, "ALCOHOL RESISTANT" FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL-FACE PIECE, IN POSITIVE PRESSURE MODE. USE WATER SPRAY TO KNOCK DOWN FUMES, TO COOL SURROUNDING CONTAINERS, AND TO DILUTE SOLUTION TO NONFLAMMABLE MIX.

UNUSUAL FIRE & EXPLOSION HAZARDS: HEATING EVOLVES EXPLOSIVE FUMES. MAY EMIT TOXIC AND IRRITATING FUMES UNDER FIRE CONDITIONS. DO NOT RAPIDLY HEAT SOLUTION.

SECTION V REACTIVITY DATA

STABILITY: STABLE IN A CLOSED CONTAINER WITHIN LABEL SPECIFIED STORAGE TEMPERATURE AND EXPIRATION DATE.

INCOMPATIBLE MATERIALS (AVOID CONTACT WITH): STRONG OXIDIZING MATERIALS, STRONG ACIDS, STRONG BASES, STRONG REDUCING AGENTS, HEAVY METALS, HEAVY METAL SALTS, AND AMMONIA.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, PHOSPHORUS OXIDES, SODIUM, SODIUM OXIDES, AND FORMALDEHYDE GAS. MAY EMIT TOXIC AND IRRITATING FUMES WHEN HEATED.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VI HEALTH HAZARD DATA

ROUTES OF ENTRY/SYMPTOMS:

EYE CONTACT: CAUSES EYE IRRITATION. DIRECT CONTACT WITH LIQUID OR EYE EXPOSURE TO THE VAPORS MAY CAUSE BURNING, REDNESS, SWELLING, TEARING, AND/OR SENSITIVITY TO LIGHT.

SKIN CONTACT: MAY CAUSE SKIN IRRITATION IN THE FORM OF TINGLING, BURNING, REDNESS, SWELLING, BURNS AND/OR BLISTERS. PROLONGED EXPOSURE MAY CAUSE DRYING AND CRACKING OF THE SKIN AND MATERIAL MAY BE ABSORBED THROUGH THE SKIN.

INHALATION (BREATHING): VAPOR INHALATION MAY CAUSE HEADACHES, DIZZINESS, NAUSEA, LOSS OF CONCENTRATION, AND UNCONSCIOUSNESS. IN HIGH CONCENTRATIONS, MAY CAUSE NARCOTIC EFFECT.

INGESTION (SWALLOWING): MAY CAUSE GASTROINTESTINAL IRRITATION WITH ABDOMINAL PAIN, NAUSEA, VOMITING, AND/OR DIARRHEA. MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH HEADACHE, DIZZINESS, DROWSINESS, AND/OR LOSS OF CONCENTRATION AND UNCONSCIOUSNESS.

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: REMOVE CONTACT LENSES IF PRESENT. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES GENEROUSLY WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH SKIN GENEROUSLY WITH SOAP AND WATER, SCRUBBING FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS AND/OR PERSISTS. WASH CLOTHING BEFORE REUSE.

INHALATION (BREATHING): REMOVE TO WELL-VENTILATED AREA. IF NOT BREATHING, PROVIDE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. SEEK MEDICAL ATTENTION.

INGESTION (SWALLOWING): SEEK MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY WAY OF MOUTH TO AN UNCONSCIOUS PERSON.

TOXICITY DATA: SODIUM PHOSPHATE DIBASIC: LD50 = 17 G/KG, ORAL, RAT; SODIUM PHOSPHATE MONOBASIC: LD50 = 8290 MG/KG, ORAL, RAT; SODIUM HYDROXIDE: LD50= NA; PICRIC ACID: LD50 = 200 MG/KG, ORAL, RAT, LOCAL OR GENERALIZED ALLERGIC REACTIONS MAY OCCUR FOLLOWING TOPICAL USE. TOXIC, IRRITANT. WATER: LD50 = > 90 ML/KG, ORAL, RAT; THESE COMPONENTS ARE NOT LISTED AS CARCINOGENIC BY THE ACGIH, IARC, NTP, OR OSHA. PARAFORMALDEHYDE: ORAL RAT LD50=800 MG/KG, SKIN RABBIT LD50=270µL/KG; PARAFORMALDEHYDE IS KNOWN TO PRODUCE FORMALDEHYDE WHICH IS HIGHLY TOXIC AND A CANCER SUSPECT AGENT.



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SECTION VI | PRECAUTIONS FOR SAFE HANDLING AND USE

IN EVENT OF SPILL OR RELEASE: DONNING APPROPRIATE PROTECTIVE GEAR, CONTAIN SPILL. KEEP SPILLED MATERIAL WET WITH WATER. BE SURE TO AVOID RUNOFF CONTACT WITH SEWERS AND DRAINS, AS THIS MAY CREATE A FIRE/EXPLOSION HAZARD. IF SOLIDS ARE PRESENT, ADD WATER TO THE SOLIDS WITHOUT STIRRING. DO NOT ALLOW THE MATERIALS TO DRY OUT. USE SPILL RESPONSE PAD OR ABSORBENT MATERIAL, DAMP WITH WATER, TO ABSORB REMAINING MATTER. DISPOSE OF SPILLED MATERIALS AND MATERIALS USED IN CLEANUP IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

WASTE DISPOSAL METHOD: KEEP ALL WASTE WET, AS THE MATERIALS MAY FORM AN EXPLOSIVE SOLID IF ALLOWED TO DRY OUT. IT MAY BE NECESSARY TO DISPOSE OF MATERIALS AS A HAZARDOUS WASTE. CONTACT EPA OR STATE ENVIRONMENTAL AGENCY FOR ASSISTANCE. DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

STORAGE AND HANDLING PRECAUTIONS: REFER TO INDIVIDUAL BOTTLE LABEL FOR PROPER STORAGE TEMPERATURE. STORE THE TIGHTLY CLOSED CONTAINER IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. SEPARATE FROM STRONG OXIDIZERS, ACIDS, AND ALKALIES. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT TO PREVENT SKIN AND EYE CONTACT. WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE EATING. DO NOT LET PRODUCT DRY OUT COMPLETELY. DO NOT HEAT. WIPE OFF BOTTLE NECK AND INSIDE CAP AFTER EACH USE.

SECTION VII | CONTROL MEASURES

RESPIRATION PROTECTION: USE AN APPROVED SELF-CONTAINED BREATHING APPARATUS IF ADEQUATE LOCAL VENTILATION IS NOT AVAILABLE AND/OR IN THE EVENT OF A SPILL.

VENTILATION: WORK IN A FUME HOOD OR WELL-VENTILATED AREA TO CONTROL VAPOR CONCENTRATION.

GLOVES: WEAR APPROPRIATE CHEMICAL GLOVES TO PREVENT SKIN CONTACT.

EYE PROTECTION: WEAR APPROPRIATE CHEMICAL GOGGLES TO PREVENT EYE CONTACT.

OTHER PROTECTION EQUIPMENT: NONE.

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