



STANDOX® MATERIAL SAFETY DATA SHEET

***** SECTION 1 - Product and Company Identification *****

Manufacturer: Standox
47802 West Anchor Ct.
Plymouth, MI 48170

Telephone: Product Information: (800) 551-9296
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

PRODUCT NAME: Standocryl® 2K Premium Clear

PRODUCT CODE: 020 16252

***** SECTION 2 - Composition, Information on Ingredients *****

Table with 4 columns: CAS #, Ingredient, Concentration/Range (%), and Exposure Limits**. Rows include Butyl Acetate, Methyl Amyl Ketone, Ethylbenzene, Xylene, Aromatic Hydrocarbon, 1,2,4-Trimethyl Benzene, Polyester Resin, and Acrylic Resin.

***** SECTION 2 - Composition, Information on Ingredients *****
Cont'd

Not Avail	ACRYLIC POLYMER	5-15	A	None
			O	None

OSHA HAZARDOUS? Yes

** A = ACGIH, O = OSHA, D = Dupont, S = Supplier (For additional definition of terms, see Section 16). Limits are 8-hour TWA unless otherwise specified.

***** SECTION 3 - Hazards Information *****

Emergency Overview:

WARNING! COMBUSTIBLE LIQUID AND VAPOR. VAPORS AND SPRAY MIST HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS DIZZINESS, HEADACHE, OR NAUSEA. MAY CAUSE NOSE, THROAT, EYE AND SKIN IRRITATION. CAN BE ABSORBED THROUGH THE SKIN.

Potential Health Effects:**Inhalation:**

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion:

May result in gastrointestinal distress.

Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Other Potential Health Effects in addition to those listed above:**BUTYL ACETATE**

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. WARNING: This chemical is known to the State of California to cause cancer.



***** SECTION 3 - Hazards Information *****
Cont'd

XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

AROMATIC HYDROCARBON

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

NOTE:

If a chemical listed above is not identified as a carcinogen it is not an "IARC, NTP, or OSHA carcinogen".

***** SECTION 4 - First Aid Measures *****

First Aid Procedures:

Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

Skin or eye:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

***** SECTION 5 - Firefighting Measures *****

Flash Point (Method)	100 deg F - 141 deg F	Closed Cup
Approx. flammable limits	LFL 0.9 % UFL 12.0 %	
Auto ignition temperature	393.0 - 479.0 Deg C	



***** SECTION 5 - Firefighting Measures *****
Cont.

Hazardous Combustion Products:

CO, CO₂, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

Extinguishing media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Special fire fighting procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

Fire & explosion hazards:

Combustible liquid. When heated above the flashpoint, emits vapors which, when mixed with air, will burn if an ignition source is present. Fine mist or sprays could ignite at temperatures below the flashpoint.

***** SECTION 6 - Accidental Release Measures *****

Procedures for cleaning up spills or leaks:

Ventilate area. If heated above the flashpoint, remove sources of ignition. Prevent skin and eye contact and breathing of vapor.

Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

***** SECTION 7 - Handling and Storage *****

Precautions to be taken in handling and storing:

Observe label precautions. Keep away from heat, flame and other sources of ignition. When heated above its flash point, this must be handled as if it were a flammable liquid. Close container after each use. Do not transfer contents to bottles or unlabeled containers. Wash thoroughly after handling and before eating or smoking.

OSHA/NFPA Storage Classification: II

Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation, and gloves.

***** SECTION 8 - Exposure Controls or Personal Protection *****

Engineering controls and work practices:

Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Personal Protective Equipment:

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Respiratory:**

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

Protective clothing:

Neoprene gloves and coveralls are recommended.

Eye protection:

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

******* SECTION 9 - Physical and Chemical Properties *******

Evaporation Rate	Slower than Ether
Vapor Pressure of principal solvent	2.80 mbar @ 20 Deg C
Solubility of solvent in water	NIL
Vapor density of principal solvent (Air = 1)	3.90
Approx. Boiling range	150 - 190 DEG (C)
Approx. Freezing range	-36 - -35 DEG (C)
Gallon weight (lbs/gal)	8.35
Specific gravity	1.01
Percent volatile by volume	50.68
Percent volatile by weight	42.66
Percent solids by volume	49.32
Percent solids by weight	57.34
Odor	Characteristic Paint Odor
Appearance	Liquid Paint
Physical state	Liquid
pH (waterborne systems only)	Not Applicable
VOC* less exempt (lbs/gal)	3.4
VOC* as packaged (lbs/gal)	3.4

* VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

******* SECTION 10 - Stability and Reactivity *******

Stability: Stable

Incompatibility (materials to avoid): None reasonably foreseeable

Hazardous decomposition products: CO, CO₂, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

Hazardous polymerization: Will not occur.

Sensitivity to static discharge: If heated above the flash point, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to mechanical impact: None Known

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***** SECTION 11 - Toxicological Information *****

No Information Available

***** SECTION 12 - Ecological Information *****

No Information Available

***** SECTION 13 - Disposal Considerations *****

Waste disposal method:

Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial, and local requirements. Do not incinerate in closed containers.

***** SECTION 14 - Transportation Information *****

No Information Available

***** SECTION 15 - Regulatory Information *****

TSCA Status: In compliance with TSCA Inventory requirements for commercial purposes.

Photochemical Reactivity: Photochemically reactive

Other Regulatory Information:

CAS #	Ingredient	302	TPQ/RQ	EPCRA		CERCLA	
				311/312	313	RQ(lbs)	HAP
123-86-4	BUTYL ACETATE	N	NR	A,C,F	N	NR	N
110-43-0	METHYL AMYL KETONE	N	NR	A,C,F	N	NR	N
100-41-4	ETHYLBENZENE	N	NR	A,C,F	Y	1000	Y
1330-20-7	XYLENE	N	NR	A,C,F	Y	100	Y
64742-95-6	AROMATIC HYDROCARBON	N	NR	A,C,F	N	NR	N
95-63-6	1,2,4-TRIMETHYL BENZENE	N	NR	NA	Y	NR	N
Not Avail	POLYESTER RESIN	N	NR	NA	N	NR	N
Not Avail	ACRYLIC RESIN	N	NR	NA	N	NA	N
Not Avail	ACRYLIC POLYMER	N	NR	NA	N	NR	N



Key:

EPCRA: Emergency Planning and Community Right-to-Know Act (aka Title III, SARA)

302: Extremely hazardous substances

311/312 Categories: F = Fire Hazard A = Acute Hazard
R = Reactivity Hazard C = Chronic Hazard
P = Pressure Related Hazard

313 Information: Section 313 Supplier Notification - The chemicals listed above with a 'Y' in the 313 column are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know act of 1986 and of 40 CFR 372. CERCLA: Comprehensive Emergency Response, Compensation and Liability Act of 1980.

HAP = Listed as a Clean Air Act Hazardous Air Pollutant

TPQ = Threshold planning quantity

RQ = Reportable quantity

NA = not available

NR = not regulated

******* SECTION 16 - Additional Information *******

HMIS Rating: H: 2 F: 2 R: 0

Glossary of Terms:

- ACGIH - American Conference of Governmental Industrial Hygienists
- IARC - International Agency for Research on Cancer
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- STEL - Short term exposure limit
- TWA - Time-weighted average
- PNOR - Particles not otherwise regulated
- PNOC - Particles not otherwise classified

NOTICE FROM STANDOX

The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or any process.

MSDS prepared by: Standex Regulatory Affairs Consultant.