MATERIAL SAFETY DATA SHEET

MANUFACTURER

International Chemical Products, Inc.
1209 Meadow Park Drive SE
Huntsville, AL – 35803, USA

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SECTION I : PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME : **PICKLEX®** (All Grades)
CHEMICAL NAME & FAMILY : Ortho-Ester
PRODUCT DESCRIPTION : Green color
Water based metal surface preparation/pre-treatment & protective coating compound (metal surface cleaning & conditioning compound)

EMERGENCY : 256-650-0088

SECTION II : HAZARDOUS INGREDIENT INFORMATION

Phosphoric Acid CAS NO. 7664-38-2 <10% by volume
OSHA Exposure limit: 1 mg / m^3 (29 CFR 1910.1000 Table Z-1)

Note : Even there is a small amount of Phosphoric acid as an ingredient, the final product is water based, water soluble and non-hazardous in nature (ref. Section VIII)

Other ingredients are considered not hazardous as defined in 29 CFR 1910

SECTION III : HEALTH INFORMATION & PROTECTION

NATURE OF HAZARD

EYE CONTACT : Irritating and will injure eye tissues if not removed promptly.
SKIN CONTACT : Frequent & prolonged contact may cause irritation.
INHALATION : Prolonged inhalation in high vapor concentration may cause headache & dizziness.
INGESTION : Minimum Toxicity, small amount of liquid aspirated into respiratory system during ingestion or vomiting, may cause some internal disorder.
CARCINOGENICITY : This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as a probable human Carcinogen (as per list) Part no. 1926 standard no. 1926.64 APPA and Part no. 1910 standard no. 1910.119 APPA

FIRST AID

EYE CONTACT : Immediately flush eyes with large quantities of water at least 15 minutes and get prompt medical attention.

SKIN CONTACT : Immediately wash with soap and water.
INHALATION : Remove patient to fresh air, use artificial respiration and get medical attention.
INGESTION : If patient is conscious and alert, give two or more glasses of water to drink. Do not induce vomiting, if vomiting occurs, give fluid again. Get medical attention.
ENVIRONMENTAL IMPACT : No ODS content.

PRECAUTIONS FOR SAFE HANDLING & USE

PERSONAL PROTECTION : Wear long sleeves and chemical resistance goggles or safety glasses with side shields and chemical resistant gloves.

Where concentration in air may exceed the limits of engineering work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent over exposure by inhalation.

VENTILATION : Whenever this product is used in a confined space, proper ventilation should be used (use of mechanical dilution in ventilation is recommended).

CHRONIC EFFECT : Data is not available or any adverse effect has not yet resulted.

SECTION IV : FIRE & EXPLOSION HAZARD

GENERAL HAZARD : Acidic, may cause temporary mark on floors etc. Any spillage on concrete should be neutralized immediately with large amount of water to avoid etching and discoloring. May damage cotton & synthetic clothing.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS : None

SECTION V : SPILL CONTROL PROCEDURE

LAND SPILL : Steps to be taken if material is released or spilled :Small spills can be handled routinely. It is recommended, the floor of the working area be covered by plastic sheets. The personnel involved in spill clean up, should follow good industrial hygiene practices. If mist or vapor are generated, use adequate ventilation and wear respirator to prevent inhalation. Wear suitable protective clothing and eye protection to prevent contact with skin and eye.
Use the following procedure for cleanup :Neutralize the spill area with soda ash, Sodium Bi-carbonate or lime. Then flush the area with a large amount of water. Exercise caution during neutralization, as heat may be generated.

WATER SPILL : Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION VI : NOTES

Dispose the chemical in accordance with local, state and federal regulations. Do not ingest. Do not get in eyes, skin or clothing. Avoid breathing vapor or mist for a long time.
When handling this product, wear chemical goggles, protective clothing, chemical resistant gloves and footwear. Always wash thoroughly with soap and water after handling this product.
Container should be stored in a cool, dry and well-ventilated area, away from incompatible materials (see Section IX). Exercise caution to prevent damage to or leakage from the container.

COMPATIBLE MATERIALS : Stainless Steel, Fiberglass, High density Polyethylene, Polypropylene, Polycarbonate, PVC or any acid resistance material

HAZARD RATING SYSTEMS : This information is for the personnel trained in National Paint & Coating Association (NPCA), Hazardous Material Identification System (HMIS), National Fire Protection Association (NFPA 704).

IDENTIFICATION OF THE FIRE HAZARD MATERIALS

	NPCA-HMIS	NFPA 704	KEY
Health	2	2	4 = Severe
Flammability	0	0	3 = Serious
Reactivity	0	0	2 = Moderate
			1 = Slight
			0 = Minimal

SECTION VII : REGULATORY INFORMATION

Department of Transportation (DOT) : No special requirement or permission needed for shipping by ground transportation as per 49 CFR 173.154 (**paragraph D**). **IATA** – Not regulated **RoHs** – Contains no banned chemical listed in **RoHs.** **HS Code: 3810.10**

CERCLA : If this product is accidentally spilled, it is not subjected to any special reporting under the requirement of the Comprehensive Response Compensation and Liability - at CERCLA

SECTION VIII : PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	:	Higher than 200ºF (not regulated by OSHA)
Boiling point @ 760 mm Hg	:	275ºF
Freezing point	:	30ºF or below
pH	:	< 2 **(See note below)**
V.O.C.	:	< 0.01 lbs/gal
Appearance and Odor	:	Green, Lemon or Rosy smell
Water Solubility	:	Highly soluble

Note : Even the value of pH is low, **the chemical is non-hazardous in nature** (see section VI). It is due to the special manufacturing process and technology, which keeps the pH very low, but has no significant effect on health while handling. However, according to EPA it is considered as a hazardous waste when disposed, because of low pH. But because the process is continuous and there is no waste disposal involved, the question does not arise. Also, since **Picklex®** does not etch the metal surface, no heavy metal from the metal parts goes into the **Picklex®** bath or the subsequent rinse water (in the finishing process). If for any reason the chemical itself has to be disposed, then the **disposal of the chemical should be done as a hazardous waste in accordance with local, state and federal regulations.**

SECTION IX : REACTIVITY DATA

STABILITY : Stable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY :
Caustics, Amines, Alkanolamines, Aldehydes, strong Oxidizing agents and Chlorinated compounds.

HAZARDOUS DECOMPOSITION PRODUCTS : None

SECTION X : STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD : None
STORAGE TEMPERATURE : Ambient
LOADING/UNLOADING TEMP. : Ambient

REVISION SUMMARY : The information herein is given in good faith. But no warranty express or implied is made. However, we recommend you to contact local authorities, to determine if there may be other local reporting requirements.

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May 15, 1997	Feb 24, 2005	Mar 28, 2008	Oct 4, 2012	Feb 14, 2013

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