



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

<b>TRADE NAME</b>	<b>700US IM-KOTE 700 SERIES Part A</b>	<b>B2, D2A, F</b>
<b>APPLICATION OF THE SUBSTANCE/PREPARATION</b>	Part A for 710 NCF Primer for all Im-kote systems, 724 NCF Floor – polymer concrete floor overlay, 727 NCF Liner – polymer concrete for vertical toweling, tank lining, 735 NCF Finish-Clear & Coloured, 740 NCF Grout – a chemical resistant, non-shrinking grout.	
<b>MANUFACTURE/SUPPLIER</b>	IMCO TECHNOLOGIES 6254 SKYWAY RD., PO BOX 915 SMITHVILLE, ON. L0R 2A0	TEL 1-888-818-4626 FAX 905-527-0606 IMCO TECHNOLOGIES 3909 Witmer RD, Suite 1014 NIAGARA FALLS, NY 14305
<b>EMERGENCY NUMBER</b>	613-996-6666 or *666 CANUTEC 1-800-535-5053 UNITED STATES POISON INFORMATION CENTRE	

## 2. HAZARDS IDENTIFICATION

 GHS03	 GHS07	GHS CLASSIFICATION: Flammability 3, Reactivity 4, Health 2
<b>ROUTE OF ENTRY</b>	Absorption, Eye contact, Ingestion, Inhalation, Skin contact.	
<b>CARCINOGENIC STATUS</b>	IARC has classified styrene in group 2B (Possible human carcinogen)	
<b>TARGET ORGANS</b>	Eye, Skin, Lung, Liver, Kidney, Heart, Central Nervous System, Reproductive.	
<b>HEALTH EFFECTS – EYE</b>	Can cause severe irritation, redness, tearing, blurred vision.	
<b>HEALTH EFFECTS – SKIN</b>	Material will cause moderate irritation. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.	
<b>HEALTH EFFECTS – INGESTION</b>	Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis, which can be fatal.	
<b>HEALTH EFFECTS – INHALATION</b>	Excessive inhalation of vapors can cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.	

## 3.COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	WEIGHT %	TWA ppm	LD50 ORAL RAT Mg/kg	LC50 INHAL RAT ppm
STYRENE	100-42-5	40-70-100	50	2,650	2,800 (4Hr)

## 4. FIRST AID MEASURES

<b>FIRST AID – INHALATION</b>	Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately and administer artificial respiration if breathing stops.
<b>FIRST AID – SKIN</b>	Thoroughly wash exposed area with soap and water. Remove contaminated clothing and launder before re-use.
<b>FIRST AID – EYE</b>	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
<b>FIRST AID – INGESTION</b>	Have victim drink 1 – 3 glasses of water to dilute stomach contents. <b>DO NOT INDUCE VOMITING.</b> If there is difficulty in breathing give oxygen. Obtain medical attention immediately.

**INFORMATION FOR DOCTOR:**

**Most important symptoms and effects, both acute and delayed**

No further relevant information available

**Indications of any immediate medical attention and special treatment needed**

No further relevant information available

## 5. FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY	FLAMMABLE LIQUID. Fire hazard. Avoid heat and flame.
EXTINGUISHING MEDIA	Use foam, dry chemical, water fog, carbon dioxide, and water spray only to cool fire-exposed containers.
SPECIAL HAZARDS OF PRODUCT	This product is volatile and readily gives off vapours which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other sources at locations distant from product handling point. Under fire conditions, polymerization may occur. If this happens in a closed container, there is a possibility it will explode violently. Cool containers with water if exposed to fire.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTING	Wear full protective clothing and self-contained breathing apparatus.
EXPLOSION DATA – SENSITIVITY TO IMPACT	NO
EXPLOSION DATA – SENSITIVITY TO STATIC DISCHARGE	YES


## 6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES	Eliminate all sources of ignition such as flares, flames, pilot lights and electrical sparks. Absorb liquid on vermiculite, floor absorbent or other absorbent material.
PERSONAL PRECAUTIONS	Person not wearing protective equipment should be excluded from area of spill until clean up has been completed. Good personal hygiene is essential. Hands and other exposed areas should be washed with soap and water after contact.
ENVIRONMENTAL PRECAUTIONS	Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer.
<b>REFERENCES TO OTHER SECTIONS:</b> See Section 7 for information on safe handling See Section 8 for information on personal protection equipment See Section 13 for disposal information	

## 7. HANDLING AND STORAGE

HANDLING	Use in well-ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.
STORAGE	Store away from sources of heat or ignition. Storage area should be: cool, dry, and well ventilated, out of direct sunlight, away from incompatible materials.
<b>INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:</b> Keep ignition sources away – Do not Smoke Protect against electrostatic charges	
SPECIFIC END USER(S) No further relevant information available	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used.
RESPIRATORY PROTECTION	The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator. The following protection is recommended: Respirator equipped with an organic vapor cartridge.
 HAND PROTECTION	Full-length gloves must be worn during all handling operations. Neoprene gloves.
EYE PROTECTION	Chemical goggles must be worn during all handling operations to protect against splashing.
BODY PROTECTION	Discard contaminated protective equipment. If there is danger of splashing, wear overall or apron and boots.
PROTECTION DURING APPLICATION	During application, adequate ventilation must be provided. If ventilation is poor, wear respiratory protection. During application, flames and unsealed lights must be extinguished and adequate ventilation must be provided. <b>WARNING:</b> When part A is mixed with part B and/or part C, if not applied before curing starts, tremendous heat build-up is possible. Sudden release of hot organic chemical vapours may result in ignitions without the presence of obvious ignition sources.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
ODOUR & APPEARANCE	Styrene odour, amber, various colours
ODOR THRESHOLD (ppm)	NA
SPECIFIC GRAVITY	1.00 – 1.10
VAPOR DENSITY (AIR = 1)	1.00
VAPOR PRESSURE 20 C	4.5 mm/Hg
EVAPORATION RATE	NA
BOILING POINT (°C)	142C/293F
FREEZING POINT (°C)	NA
pH	NA
COEFFICIENT OF WATER/OIL DISTRIBUTION	NA
SOLUBILITY IN WATER	Negligible
VOC (g/l)	NA
FLASH POINT (PMCC) (°C/F)	32C / 90F
UPPER FLAMMABLE LIMIT %VOL	6.1
LOWER FLAMMABLE LIMIT %VOL	1.1
AUTOIGNITION TEMP (°C/F)	NA

## 10. STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions
CONDITIONS TO AVOID	High temperatures, Static discharge, all sources of ignition.
MATERIALS TO AVOID	Contact with: acids, aluminum chloride, halogens, metal salts, peroxides, strong alkalis, and strong oxidizing agents.
HAZARDOUS POLYMERIZATION	Product can undergo hazardous polymerization. Avoid exposure to excessive heat, peroxides and polymerization catalysts.
HAZARDOUS DECOMPOSITION PRODUCTS	May form: carbon dioxide, carbon monoxide, toxic fumes and various hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE	<b>Skin</b> – Irritant, prolonged and repeated contact can cause defatting and drying of the skin, resulting in irritation and dermatitis. May be absorbed. <b>Eyes</b> – Irritant may cause a burning sensation, redness, swelling, and/or blurred vision. <b>Inhalation</b> – May cause irritation of nasal and respiratory passages, headache, dizziness, nausea, drowsiness, intoxication and weakness. <b>Ingestion</b> – headache, dizziness, nausea, and drowsiness.
EFFECTS OF CHRONIC EXPOSURE	Overexposure has been suggested as a cause of the following effects in humans: mild effects on colour vision, effects on hearing, respiratory tract damage (nose, throat and airways), central nervous system effects.
EXPOSURE LIMITS	50 ppm TWAEV
IRRITANCY	Moderate irritation expected
SENSITIZATION	No
CARCINOGENICITY	IARC has classified styrene in group 2B (Possible human carcinogen)
REPRODUCTIVE TOXICITY	No data available.
TERATOGENICITY	In animal studies, this material has shown to cause harm to the fetus only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.
MUTAGENICITY	No data available.
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	Styrene readily reacts with low concentrations of halogens (fluorine, chlorine, bromine or iodine) to form a tear-producing substance.

## 12. ECOLOGICAL INFORMATION

MOBILITY	No data available.
PERSISTENCE/DEGRADABILITY	No data available.
BIO-ACCUMULATION	No data available.
ECOTOXICITY	No data available.
<b>Results of PBT and vPvB assessment</b> PBT: Not applicable vPvP: Not applicable	

## 13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	Dispose of as hazardous waste. Dispose of in accordance with all applicable local and national regulations.
CONTAINER DISPOSAL	Dispose of bags according to federal, provincial, state and local regulations.

**14. TRANSPORTATION INFORMATION**

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

UNITED STATES	DOT CLASSIFICATION
DOT CFR 172.101 DATA	(<1 gallon) Proper Shipping Name: Consumer Commodity, ORM-D
UN PROPER SHIPPING NAME	RESIN SOLUTION, FLAMMABLE
UN CLASS	3
UN NUMBER	UN 1866
UN PACKAGING GROUP	III
FLASH POINT	32 C
HAZARDOUS MATERIAL	STYRENE MONOMER 57%
HAZARD LABEL	3
Marine Pollutant	NO
Special precautions for user	N/A

**15. REGULATORY INFORMATION**

WHMIS : CLASS B-2 Flammable Liquid with flash point lower than 37.8C(100F)  
 : CLASS D-2A Material causing other toxic effects. (VERY TOXIC MATERIAL)  
 : CLASS F Dangerously reactive material.

CEPA STATUS (DSL) : All of the ingredients of this product are listed on the Domestic Substances List.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

**16. OTHER INFORMATION**

	HMIS hazard ID: 0-MINIMAL; 1-SLIGHT; 2-MODERATE; 3-SERIOUS; 4-SEVERE		NFPA hazard ID: 0-MINIMAL; 1-SLIGHT; 2-MODERATE; 3-SERIOUS; 4-SEVERE
KEY	NA: No applicable information found or available CAS#: Chemical Abstracts Service Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit NTP: National Toxicology Program IARC: International Agency for Research on Cancer R: Risk S: Safety LD50: Lethal Dose 50% LC50: Lethal Concentration 50%		
PREPARED BY:	IMCO® Technologies Inc.		
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Provided data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, however, each user should review these recommendations.