

Quality Chemical Mfg.  
215 Dolomite Drive  
Downsview, Ontario M3J 2N1

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: IRONBRIDGE Floor Finish**

<b>HEALTH HAZARD RATING:</b>	SLIGHT HAZARD - irritation or minor reversible injury possible
<b>FLAMMABILITY HAZARD RATING:</b>	MINIMAL HAZARD - materials which are normally stable and will not burn unless heated
<b>REACTIVITY HAZARD RATING:</b>	MINIMAL HAZARD – materials, which are normally stable, even under fire conditions, and which will not react with water.
<b>PERSONAL PROTECTION:</b>	Safety glasses
<b>HAZARD ALERT SIGN:</b>	HEALTH HAZARD – Slightly hazardous FIRE HAZARD – Will not burn, incombustible REACTIVITY – Stable SPECIFIC HAZARD –

## SECTION I – MATERIAL IDENTIFICATION AND USE / IDENTIFICATION DE LA MATIÈRE ET USAGE

### MATERIAL NAME / IDENTIFIÉRIER – NOM / IDENTIFICATION DE LA MATIÈRE

#### IRONBRIDGE Floor Finish

<b>MANUFACTURER'S NAME AND ADDRESS/ NOM DU FABRICANT – ADRESSE EMERGENCY PHONE NO. / N° DE TÉLÉPHONE D'URGENCE</b>	
<b>SUPPLIER'S NAME AND ADDRESS/ NOM DU FOURNISSEUR - ADRESSE EMERGENCY PHONE NO. / N° DE TELEPHONE DURGENCE</b>	Quality Chemical Mfg. 215 Dolomite Drive Downsview, Ontario M3J 2N1 (416) 665-8422
<b>CHEMICAL NAME / DÉNOMINATION CHIMIQUE</b>	Not Applicable
<b>CHEMICAL FAMILY / FAMILLE CHIMIQUE</b>	Polymer Emulsion
<b>CHEMICAL FORMULA / FORMULE CHIMIQUE</b>	Not Applicable
<b>TRADE NAME AND SYNONYMS / APPELLATION COMMERCIALE ET SYNONYMES</b>	Not Applicable

MOLECULAR WEIGHT / POIDS MOLÉCULAIRE	Not Applicable
MATERIAL USE / UTILISATION DE LA MATIÈRE	Floor Finishing

G.K. Chemical Specialties Co. Ltd. has compiled the information and recommendations contained in this Material Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation.

G.K. Chemical Specialties Co. Ltd. extends no warranty and assumes no responsibility as to the accuracy of the content or sufficiency of the information and expressly disclaims all liability for reliance thereon. This MSDS provides guidelines for the safe handling of this product. It does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

G.K. Chemical Specialties Co. Ltd. assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.

INGREDIENTS. This MSDS, under section of Ingredients, contains all ingredients listed under INGREDIENT DISCLOSURE LIST P.C. 1987-2719, 20/1/88 CANADA GAZETTE PART II VOL. 122, No 2 of HAZARDOUS PRODUCT ACT.

Percentage range of concentration of ingredients is expressed as percentage by weight of the total weight of the product. Ingredient List does not necessarily list all ingredients in the formulation and does not necessarily list all ingredient range of concentration, other than ingredients under the Disclosure List.

T.L.V. (units) or Threshold Limit Values refer to the limiting concentrations recommended by the Ministry of Labour. These values were adopted by the American Conference of Governmental Industrial Hygienists (A.C.G.I.H.). The figures refer to time-weighted average concentrations as P.P.M. (V/V) or mg/m<sup>3</sup> for a normal working day or at any time for some materials.

“C.A.S REG. No.” means the identification number assigned to a chemical substance by the Chemical Abstracts Service Division of the American Chemical Society.

“LC 50” means the concentration of a substance in air that when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

“LD 50” means the single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause death of 50 per cent of a defined animal population.

FLASH POINT. The minimum temperature at which a substance gives off flammable vapors

which in contact with spark or flame will ignite.

**SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL / INGRÉDIENTS DANGEREUX DE LA MATIÈRE**

HAZARDOUS INGREDIENTS / INGRÉDIENTS DANGEREUX	APPROXIMATE CONCENTRATION% CONCENTRATION APROXIMATIVE %	C.A.S., N.A. OR U.N. NUMBERS / NUMERO CAS NA OU CNU	LD50 {SPECIFY SPECIES & ROUTE} DL50 {PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION}	LC 50 {SPECIFY SPECIES & ROUTE} CL50 {PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION}
40% Acrylic emulsion Polyethylene wax emulsion Water soluble leveling resins Tributoxy ethyl phosphate Antifoam Ammonium hydroxide Formaldehyde Diethylene glycol monoethyl ether	15-40 1-5 1-5 1-5 < 0.04 < 0.20 < 0.05 3-7	Non hazardous Non hazardous Non hazardous Non hazardous Non hazardous 1336-21-6 50-00-0 111-90-0	350 mg/kgm 500-5000 mg/kgm 500-5000 mg/kgm	< = Less Than

**SECTION III – PHYSICAL DATA FOR MATERIAL / CARACTÉRISTIQUES PHYSIQUES DE LA MATIÈRE**

**PHYSICAL STATE / ÉTAT PHYSIQUE**

Liquid

**ODOUR AND APPEARANCE / ODEUR ET APPARENCE**

Milky Liquid – Mild Ammonia Odour

**ODOUR THRESHOLD (P.P.M.) / SEUIL DE L'ODEUR (PPM)**

None Established

**SPECIFIC GRAVITY / DENSITE RELATIVE**

gm/cm<sup>3</sup> 1.00

**VAPOUR PRESSURE [MM] / TENSION DE VAPEUR [MM]**

< 25 at 20 °C

**VAPOUR DENSITY [AIRE = 1] / DENSITE DE VAPEUR [AIR =1]**

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< 1

**EVAPORATION RATE / TAUX D'ÉVAPORATION**

~ Water

**BOILING POINT [°C] / POINT D'ÉBULLITION [°C]**

100 °C

**FREEZING POINT [°C] / POINT DE CONGELATION [°C]**

-3 °C

**SOLUBILITY IN WATER [20°C] / SOLUBILITÉ DANS L'EAU [20°C]**

Infinite

**% VOLATILE [BY VOLUME] / % VOLATILITÉ [PAR VOLUME]**

82 ± 1%

**PH**

Conc. 8.6 ± 0.6

**COEFFICIENT OF WATER / OIL DISTRIBUTION / COEFFICIENT DE RÉPARTITION EAU / HUILE**

Not Applicable

**SECTION IV – FIRE AND EXPLOSION HAZARD OF MATERIAL/RISQUES D'INCENDIE ET D'EXPLOSION DU MATÉRIEL**

<b>FLAMMABILITY / INFLAMMABILITÉ</b> __ YES / OUI <u>X</u> NO/NON <b>IF YES, UNDER WHICH CONDITIONS? / SI OUI, DANS QUELLES CONDISIONS?</b>	Non-Combustible Material can splatter above 100 °C after water evaporates. Polymer film can burn.
<b>MEANS OF EXTINCTION / MOYENS D'EXTINCTION</b>	Not Applicable For burning splattered polymer film use water, dry chemical, foam, CO <sub>2</sub>
<b>SPECIAL PROCEDURES / MARCHE A SUIVRE SPÉCIALE</b>	Wear self-contained breathing apparatus (pressure demand, MSHA / NIOSH – approved or equivalent) and full protective gear.
<b>FLASHPOINT [°C] AND METHOD / POINT D'ÉCLAIR [°C] ET MÉTHODE DE DÉTERMINATION</b>	Non-Combustible
<b>UPPER EXPLOSION LIMIT [% BY VOLUME]/ SEUIL MAXIMAL D'INFLAMMABILITÉ [% PAR VOLUME]</b>	Not Applicable
<b>LOWER EXPLOSION LIMIT [% BY VOLUME]/ SEUIL MINIMAL D'INFLAMMABILITÉ [% PAR VOLUME]</b>	Not Applicable
<b>AUTOIGNITION TEMPERATURE [°C] / TEMPÉRATURE D'AUTO-INFLAMMATION [°C]</b>	Not Applicable
<b>HAZARDOUS COMBUSTION PRODUCTS / PRODUITS DE COMBUSTION DANGEREUX</b>	Not Established

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**EXPLOSION DATA / DONNÉES SUR L'EXPLOSIBILITÉ**

SENSITIVITY TO MECHANICAL IMPACT / SENSIBILITÉ AUX CHOCS	Not Applicable
SENSITIVITY TO STATIC DISCHARGE / SENSIBILITÉ AUX DÉCHARGES ÉLECTROSTATIQUES	Not Applicable

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**SECTION V – REACTIVITY DATA / DONNÉES SUR LA RÉACTIVITÉ**

CHEMICAL STABILITY / STABILITÉ CHIMIQUE <input checked="" type="checkbox"/> YES / OUI <input type="checkbox"/> NO/NON IF NO, UNDER WHICH CONDITIONS? / SI NON, DANS QUELLES CONDISIONS?	
INCOMPATIBILITY TO OTHER SUBSTANCES / INCOMPATIBILITÉ AVEC D'AUTRES SUBSTANCES <input checked="" type="checkbox"/> YES / OUI <input type="checkbox"/> NO/NON IF SO, WHICH ONES? / SI OUI, AVEC LESQUELLES?	Acids
REACTIVITY AND UNDER WHAT CONDITIONS / RÉACTIVITÉ – DANS QUELLES CONDITIONS?	Non-Reactive
HAZARDOUS DECOMPOSITION PRODUCTS / PRODUITS DE DÉCOMPOSITION DANGEREUX	None Known

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**SECTION VI – TOXICOLOGICAL PROPERTIES OF MATERIAL / PROPRIÉTÉS TOXICOLOGIQUES DE LA  
MATIÈRE****ROUTE OF ENTRY / VOIE D'ADMINISTRATION**

SKIN CONTACT / CONTACT AVEC LA PEAU  SKIN ABSORPTION / ABSORPTION PAR LA PEAU  
 EYE CONTACT / CONTACT OCULAIRE  INHALATION ACUTE / INHALATION AIGUE  
 INHALATION CHRONIC / INHALATION CHRONIQUE  INGESTION

EFFECTS OF ACUTE EXPOSURE TO MATERIAL / EFFETS DE L'EXPOSITION AIGUE A LA MATIERE	May be slightly irritating to skin upon repeated or prolonged contact with product. May be slightly irritating to eyes upon contact with product. Prolonged inhalation of product may cause some irritation of nose and throat.
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL / EFFETS DE L'EXPOSITION CHRONIQUE A LA MATIERE	SKIN – practically non irritating EYES – Slightly irritating

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**MATERIAL NAME / IDENTIFIER - NOM / IDENTIFICATION DE LA MATIÈRE\***  
**IRONBRIDGE Floor Finish**

LD 50 OF MATERIAL [SPECIFY SPECIES & ROUTE] / LD50 DE LA MATIÈRE [PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION]	Oral Toxicity Rats LD50 5,000-50,000 mg/kgm
LC50 OF MATERIAL [SPECIFY SPECIES & ROUTE] LC50 DE LA MATIÈRE / [PRÉCISER L'ESPECE ET LA VOIE D'ADMINISTRATION]	Not Established

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<b>EXPOSURE [LIMITS] / LIMITS D'EXPOSITION</b>	Not Established
<b>IRRITANCY OF MATERIAL/PROPRIÉTÉ IRRITANTE DE LA MATIÈRE</b>	Eyes
<b>SENSITIZATION OF MATERIAL / SENSIBILISATION A LA MATIÈRE</b>	Eyes
<b>SYNERGISTIC MATERIALS / MATÉRES SYNERGIQUES</b>	None Known
<b>CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY / CANCÉROGÉNICITÉ, EFFETS NOCIFS SUR LA REPRODUCTION, TÉRATOGÉNÉCITÉ, MUTAGÉNICITÉ</b>	Formaldehyde is an animal carcinogen: This product contains less than 0.05% formaldehyde; however objective data indicate that under typical conditions of use for this product the R and H TWA of 0.5 ppm will not be exceeded

## **SECTION VII – PREVENTIVES MEASURES / MESURES PRÉVENTIVES**

### **PERSONAL PROTECTIVE EQUIPMENT / MATÉRIEL PERSONNEL DE PROTECTION**

<b>GLOVES (SPECIFY) GANTS [PRÉCISER]</b>	None Required
<b>EYE [SPECIFY] / YEUX [PRÉCISER]</b>	Glasses
<b>RESPIRATORY (SPECIFY) / APPAREIL RESPIRATOIRE (PRÉCISÉR)</b>	None required but where exposure limits are exceeded wear suitable respirator.
<b>OTHER (SPECIFY) / AUTRES (PRCISER)</b>	Not Applicable
<b>ENGINEERING CONTYROLS [E.G. VENTILATION, ENCLOSED PROCESS, SPECIFY] / MÉCANISMES TECHNIQUES [EX. VENTILATION, OPÉRATION EN MILIEU FERMÉ, PRÉCISER]</b>	General Ventilation
<b>LEAK AND SPILL PROCEDURE / MESURES EN CAS DE FUITE OU DE DÉVERSEMENT</b>	Keep spectators away. Floor may be slippery; use care to avoid falling. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal. Keep large spills out of municipal sewers and open bodies of water. Small spills mop and flush with water.
<b>WASTE DISPOSAL / ÉLIMINATION DES RÉSIDUS</b>	Incinerate the solids and the contaminated drinking material at a permitted facility according to local, or federal regulations. Small amounts – sanitary sewer.
<b>HANDLING PROCEDURES AND EQUIPMENTS / MÉTHODES ET ÉQUIPEMENT POUR LA MANUTENTION</b>	Keep containers closed and away from children. Avoid contact with eyes.
<b>STORAGE REQUIREMENTS / EXIGENCES D'ENTREPOSAGE</b>	Keep from freezing. Product may coagulate
<b>SPECIAL SHIPPING INFORMATION / RENSEIGNEMENTS SPÉCIAUX POUR L'EXPÉDITION</b>	None Required

## **SECTION VIII – FIRST AID MEASURES / PREMIERS SOINS**

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**IF SWALLOWED:** Induce vomiting, drink large quantities of water and see a physician. Never give anything by mouth to an unconscious person.

**IF SKIN IS CONTACTED:** Wash with soap and water.

**IF EYE ARE CONTACTED:** Hold eyelids open and flush with plenty of water, see a physician if required.

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**ADDITIONAL INFORMATION /  
RENSEIGNEMENTS SUPPLÉMENTAIRES**

A-351 is a trade name of G.K. Chemical Specialties Co. Ltd.

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## **SECTION IX – PREPARATION DATE OF M.S.D.S. / FICHE SIGNALÉTIQUE**

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**PREPARED BY:** Gus Kaklamanos - CHEMIST

**TELEPHONE NO.:** (416) 2617182

**DATE:** February 18, 2006

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### **ADDITIONAL NOTES OR REFERENCES / NOTES ADDITIONNELLES OU RÉFÉRENCES:**

**WHMIS CLASSIFICATION:** CLASS D, DIV. 2, SUB. B .