SAFETY DATA SHEET

1. Identification

Product identifier	Irathane 155 Gray - Side B	
Other means of identification		
SKU#	FW55121B	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Holcim Solutions and Products US, LLC	
Address	26 Century Boulevard, Suite 205	
	Nashville, Tennessee 37214	
Telephone	1-800-878-7876 •	
Website	www.holcimfuturacoatings.com EHS Department	
Contact person Emergency phone number	For Chemical Emergency	
	Spill, Leak, Fire, Exposure, or Incident	
	CHEMTREC:	
	Within USA and Canada: 1-800-424-9300	
	Outside USA and Canada: +1-703-527-3887	
2 Hazard(a) identification	(collect calls accepted)	
2. Hazard(s) identification	Flammable liquids	Category 2
Physical hazards	Acute toxicity, dermal	Category 4
Health hazards	Acute toxicity, inhalation	Category 4
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Harmful if inhaled. May cause drowsiness or d	contact with skin. Causes serious eye irritation. lizziness. May cause damage to organs through atic life. Toxic to aquatic life with long lasting effects.
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing. Wear protective gloves/eye protection/face protection.	

Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	87.97% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 87.97% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ETHYL ACETATE		141-78-6	60 - 100
Silicon Dioxide		112945-52-5	1 - 5
Titanium Dioxide		13463-67-7	1 - 5
Zeolites		1318-02-1	1 - 5
Other components below reportable levels			15 - 40

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire

for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
	For additional information on equipment bonding and grounding, refer to the Canadian Electrical

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities includin

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form
ETHYL ACETATE (CAS 141-78-6)	PEL	1400 mg/m3	
		400 ppm	
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CF	-		
Components	Туре	Value	
Silicon Dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	
		20 mppcf	
US. ACGIH Threshold Limi			_
Components	Туре	Value	Form
ETHYL ACETATE (CAS 141-78-6)	TWA	400 ppm	
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Zeolites (CAS 1318-02-1)	TWA	1 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide t Components	to Chemical Hazards Type	Value	
ETHYL ACETATE (CAS 141-78-6)	TWA	1400 mg/m3	
141-70-0)		400 ppm	
Silicon Dioxide (CAS 112945-52-5)	TWA	6 mg/m3	
logical limit values	No biological exposure limits noted	for the ingredient(s).	
propriate engineering trols	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.		
ividual protection measures	s, such as personal protective equip		
Eye/face protection	Chemical respirator with organic va	apor cartridge and full facepiece.	
Skin protection			
Hand protection	Wear appropriate chemical resista supplier.	nt gloves. Suitable gloves can be	e recommended by the glow
Other	Wear appropriate chemical resista	nt clothing. Use of an impervious	apron is recommended.
Respiratory protection	Chemical respirator with organic va	apor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
neral hygiene Isiderations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Gray or Orange
Odor	Strong. Solvent.
Odor threshold	Not available.
рН	7 - 8 @ 5 Percent Solution

Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 170 °F (> 76.67 °C)
Flash point	24.0 °F (-4.4 °C)
Evaporation rate	> 1 BuAc
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	> 1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.45 lb/gal
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.01
VOC	653 g/l

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Nitrates.
Hazardous decomposition	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Harmful in contact with skin.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects				
Acute toxicity	Harmful if inhaled. Harmful in contact with skin. Narcotic effects.			
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
Serious eye damage/eye irritation	Causes serious eye irritation.			
Respiratory or skin sensitizatio	n			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to ca	ause skin sensitization.		
Germ cell mutagenicity	No data available to indicate prod mutagenic or genotoxic.	luct or any components present at greater than 0.1% are		
Carcinogenicity	This product is not considered to	be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of Carcinogenicity			
Silicon Dioxide (CAS 112 Titanium Dioxide (CAS 1 Zeolites (CAS 1318-02-1 OSHA Specifically Regulate	AS 13463-67-7) 2B Possibly carcinogenic to humans.			
••	ogram (NTP) Report on Carcinoge	ens		
Not listed.	<u>-</u>			
Reproductive toxicity		ause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.			
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
Aspiration hazard	Not an aspiration hazard.			
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.			
12. Ecological information	n			
Ecotoxicity	Toxic to aquatic life with long lasting effects.			
Persistence and degradability	No data is available on the degradability of this product.			
Bioaccumulative potential				
Mobility in soil	No data available.			
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal considerations				
Disposal instructions	this material to drain into sewers/	sealed containers at licensed waste disposal site. Do not allow water supplies. Do not contaminate ponds, waterways or ditches Dispose of contents/container in accordance with al regulations.		
Local disposal regulations	Dispose in accordance with all ap	plicable regulations.		

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste
disposal company.Waste from residues / unused
productsDispose of in accordance with local regulations. Empty containers or liners may retain some
product residues. This material and its container must be disposed of in a safe manner (see:
Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN1139
UN proper shipping name	Coating Solution

Transport hazard class(es) Class Subsidiary risk Label(s) Packing group Special precautions for user Special provisions Packaging exceptions Packaging non bulk Packaging bulk	3 - 3 II Read safety instructions, SDS and emergency procedures before handling. 149, IB2, T2, TP1, TP8 150 202 242
UN number	UN1139
UN proper shipping name	Coating Solution
Transport hazard class(es)	obaling oblation
Class	3
Subsidiary risk	-
Packing group	11
Environmental hazards	Yes
ERG Code	3H
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1139
UN proper shipping name	Coating Solution, MARINE POLLUTANT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	11
Environmental hazards	
Marine pollutant	Yes
EmS	F-E, <u>S-E</u>
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and	Not established.
the IBC Code	
DOT	
FLAMMABLE 3	

IATA; IMDG



Marine pollutant



IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) ETHYL ACETATE (CAS 141-78-6) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

ETHYL ACETATE (CAS 141-78-6)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Low priority

Titanium Dioxide (CAS 13463-67-7)

US. Massachusetts RTK - Substance List

ETHYL ACETATE (CAS 141-78-6) Silicon Dioxide (CAS 112945-52-5) Titanium Dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

ETHYL ACETATE (CAS 141-78-6) Titanium Dioxide (CAS 13463-67-7)

US. Pennsylvania Worker a	Ind Community Right-to-P	Know Law	
ETHYL ACETATE (CAS Silicon Dioxide (CAS 11 Titanium Dioxide (CAS	2945-52-5)		
US. Rhode Island RTK	3403-07-7)		
ETHYL ACETATE (CAS	141-78-6)		
US. California Proposition	•		
•		n to the State of California to cause cancer a	nd birth defects or other
US - California Propos	ition 65 - CRT: Listed date	e/Carcinogenic substance	
Benzene (CAS 71-4	3-2)	Listed: February 27, 1987	
Carbon Black (CAS		Listed: February 21, 2003	
Ethyl Benzene (CA		Listed: June 11, 2004	
Titanium Dioxide (C		Listed: September 2, 2011	
•	ition 65 - CRT: Listed date	-	
Benzene (CAS 11-4	,	Listed: December 26, 1997	
Toluene (CAS 108-	,	Listed: January 1, 1991 e/Male reproductive toxin	
Benzene (CAS 71-4		Listed: December 26, 1997	
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	•	Chemical Substances (AICS)	No
Canada	Domestic Substances L		No
			-
Canada	Non-Domestic Substance		No
China	, ,	emical Substances in China (IECSC)	Yes
Europe	European Inventory of E Substances (EINECS)	Existing Commercial Chemical	No
Europe	European List of Notified	d Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and	d New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List	(ECL)	No
New Zealand	New Zealand Inventory		No
Philippines	Philippine Inventory of C (PICCS)	Chemicals and Chemical Substances	No
United States & Puerto Rico	Toxic Substances Contr	rol Act (TSCA) Inventory	Yes
*A "Ves" indicates that all comp	nents of this product comply y	with the inventory requirements administered by the	aoverning country(s)

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	09-11-2013
Revision date	08-16-2016
Version #	03
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
Disclaimer	Holcim Solutions and Products US, LLC. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Composition/information on ingredients: Component information Fire-fighting measures: Suitable extinguishing media Fire-fighting measures: Specific methods Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Precautions for safe handling Handling and storage: Conditions for safe storage, including any incompatibilities Physical & Chemical Properties: Multiple Properties Toxicological information: Carcinogenicity HazReg Data: International Inventories