Jain Irrigation Systems Ltd.

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SAFETY DATA SHEET



1000 Sheridan St Chicopee, MA 01022



SDS Number 16275040FF Edition: 04 Revision: 00 Date: 01.10.2016

1. Identification	
(a) Product Identifier	EX-CEL PVC Free Foam Sheet
(b) Other means of identification	Not provided
(c) Use of the Product	No additional information provided
(d) Name, Address and Telephone number of the Manufacturer	Jain Irrigation Systems Ltd., Jain Plastic Park, N.H. No : 6, Bambhori Jalgaon 425001, India Tel : +91 257 2258011 / 22.
(e) Emergency phone number	+91 257 2258011 / 22

2. Hazard(s) Identification

- (a) Classification of the Product Not Classified
- (b) Labelling of the Product Not applicable
- (c) Other Hazards

EXCEL PVC Free Foam sheet is produced by extrusion process from Polyvinyl chloride polymer and other additives / chemicals required for the extrusion process. These additives and Polyvinyl chloride polymer are all in a homogenous fused state and after formation into sheets, polymer or additive will not separate out. If the sheet is subjected to extreme heat or fire, there exists a possibility for liberation of fumes. During the fabrication work such as cutting, sawing, grinding etc., there exists a possibility for generation of dust and if this dust goes into eyes or swallowed may cause mechanical irritation. Appropriate Personal Protective Equipments such as respiratory masks shall be used and precautionary efforts shall be taken to minimize the dust generation.

(d) Unknown acute toxicity Data not available

3. Composition / Information on Ingredients

(a) Substance	Not Applicable		
(b) Mixture			
Material	CAS No	Percentage	Classification
Polyvinyl chloride	9002 – 86 – 2	> 70 %	Combustible dust
Calcium carbonate	1317 – 65 – 3	< 5 %	No classification
Titanium dioxide	13463 – 67 - 7	< 5 %	Carc.2 H351

EXCEL PVC Free Foam sheet is produced from Polyvinyl chloride polymer and various additives as required for the extrusion process. Above health hazards is given for individual component of the additives and this is not applicable to the final product as all Polyvinyl chloride and additives are fully fused & homogenized.

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4. First Aid Measures		
(a) Description of First aid measures for different routes of exposure	Inhalation: If smoke from burning plastics is inhaled, remove and subject to fresh air immediately. If any symptoms develop seek immediate medical attention. Skin: If burnt by molten plastics sheet get medical attention immediately. Eye: Immediately flush eyes with water for atleast 15 minutes. Do not rub the eyes. If irritation develops consult a physician. Ingestion: Quite unlikely. In case ingested rinse the mouth and contact medical attention.	
(b) Most important symptoms / effects, acute and delayed	Product as such does not pose any health hazard. During fabrication it quite likely that there will be dust generation. This dust may cause irritation to the eyes, nose and throat. Sheet edges may be sharp and may cause injury if handled with bare hand. Molten sheets may generate fumes and if comes in contact with skin or body may cause thermal burn. If exposed to dust of sheets or fumes of burnt sheets immediately seek medical attention.	
(c) Indication of any medical attention and special treatment needed	If exposed to dust of sheets or fumes of burnt sheets immediately seek medical attention.	
5 Fire Fighting Measures		

5. Fire Fighting Measures

J. File Fighting Measures		
Extinguishing media	Dry chemical, carbon dioxide, foam water. Avoid use of heavy	
	stream of water.	
Specific hazards arising from	Product does not catch fire. But at high temperature it may degrade	
the chemical	to liberate gases and fumes.	
Special protective equipment	Wear respiratory masks, Full protective clothing, gloves and other	
and precautions for fire fighters	appropriate protective equipment in case of fire. Evacuate all	
	personnel from danger area. Use dry chemical, foam water or	
	carbon dioxide to extinguish fire.	

6. Accidental release measures

(a) Personnel precautions, protective equipment and emergency procedures
Avoid generating dust during fabrication. Wear respiratory masks to avoid dust inhalation. Contact
with eyes, skin to be avoided. Ignition source to be removed Sheets shall be kept away from direct
heat, flames, hot surfaces and any other ignition sources. Wear appropriate personal protective
equipment and evacuate the area in case of any fire related emergency. In case of fire ventilate and
secure the area. If required, call for trained assistance.

(b) Methods and materials for containment and cleaning up

Collect and segregate the solid spills over from the sheets after fabrication work. Do not allow it to get into the sewer or water stream line. Clean spills immediately after the work and take up mechanically for collection in a suitable container for final disposal. For cleaning and collecting the dust on floor use vacuum cleaner which is explosion proof. Avoid mixing with other plastic or non plastic materials.

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7. Handling and storage		
(a) Precautions for safe	Wear safety glasses during sheet cutting or fabricating process. Wear	
handling	gloves during fabrication work. Avoid any ignition source during the	
	fabrication work as it can lead to combustible dust explosion. Wash hands	
	thoroughly with soap solution before eating, drinking, smoking or leaving	
	the work. Avoid eyes, skin and cloth contact with the dust. Do not inhale	
	the dust. Avoid smoking while working with the sheets. Avoid sparks, light	
	or heat source, open flames, hot surfaces.	
(b) Conditions for safe	Avoid creating dust and use explosion proof electrical and lighting	
storage, including any	equipment. Avoid generation of static electric charge and use proper	
incompatibilities	grounding procedures. Store in a cool, dry and well-ventilated area. Avoid	
	outdoor storage and storage under direct sunlight. Sheet is incompatible	
	to strong and concentrated acids, bases, strong oxidizing agents /	
	chemicals.	
O Evenous controls /	normanal protection	
8. Exposure controls / Polyvinyl Chloride - CAS		
number : 9002 – 86 – 2	Exposure limit: TLV (ACGIH – USA) 1 mg / m3 Respirable PNOC. ACGIH Chemical category – not classified as human carcinogen	
Hullibel . 9002 - 60 - 2	Acon i chemical calegory – not classified as numan calcinogen	
Calcium Carbonate - CAS	Exposure limit : NIOSH REL (TWA) : 10 mg / m3 total dust & 5 mg / m3	
number : 1317 – 65 - 3	respirable dust. PEL (OSHA): 15 mg / m3 total dust & 5 mg / m3	
Harriber : 1317 = 03 - 3	respirable dust	
Titanium dioxide - CAS	Exposure limit : TLV (ACGIH – USA) 10 mg / m3 ACGIH Chemical	
number : 13463 – 67 – 7	category – not classified as human carcinogen. PEL (OSHA) : 15 mg /	
Transcr. 10400 07 7	m3 total dust	
(b) Appropriate engineering	If the product is cut or fabricated there exists possibility for dust or	
controls	particulate matter generation. For emergency eye wash & safety	
	showers shall be made available. Provide adequate ventilation in work	
	area. Avoid static electricity through proper grounding procedures. Use	
	explosive proof equipment in work area and dust shall be collected to	
	avoid dust in work area. Avoid any live flames, ignition source or hot surfaces to avoid combustible dust generation. Adhere to national or	
	local regulations.	
(c) Individual protection	Sheet edges may be sharp and use appropriate gloves. Wear respiratory	
measures (Personal	masks, full clothing during fabrication work. Wear protective	
protection equipment)	goggles.Cloth shall be chemical resistant. Do not eat, smoke or drink	
protection equipment)	while working with the sheets	
9. Physical and chemic	1 9	
(a) Appearance	Solid	
(b) Odour	No data available	
(c) Odor threshold	No data available	
(d) pH	Not applicable	
(e) Melting point /	No data available	
freezing point		
(f) Initial boiling point	Not applicable	
and boiling range		
(g) Flash point	No data available	
(h) Evaporation rate	Not applicable	
(i) Flammability (Solid /	No data available	
gas)	No data quallable	
(j) Upper / lower	No data available	
flammability or		
explosive limits	No data available	
(k) Vapor pressure	No data available	
(I) Vapor density	No data available No data available	
(m) Relative density	No data available No data available	
(n) Solubility (o) Partition coefficient :	No data available No data available	
(o) i aitition coemcient.	וייט עמנע מימוומטוס	

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n-Octanol / water	
(p) Auto ignition	No data available
temperature	No data available
(q) Decomposition	No data available
temperature (r) Viscosity	Not applicable
(I) VISCOSITY	Not applicable
10. Stability and Reactive	ritv
Reactivity	Product is stable under normal conditions
Chemical stability	Product is stable under normal conditions Product is stable if stored and handled properly as highlighted in point
Chemical stability	7.
Possibility of hazardous	No hazardous reactions will occur. Product is stable.
reactions	
Conditions to avoid	Avoid direct sunlight, extreme high temperature, static electricity,
	ignition source, hot surface, open flame, sparks, heat and contact with
	incompatible materials. Avoid accumulation of dust during fabrication
	to avoid dust explosion hazard
Incompatible materials	Strong or concentrated acids, bases, oxidizing chemicals, halogens.
Hazardous decomposition	Product may undergo thermal degradation and emits carbon dioxide,
products	carbon dioxide, hydrogen chloride, Irritating fumes and black fumes.
11. Toxicological Inform	nation
(a) Information on the likely	Dust may be harmful or cause irritation to skin or eye. May cause
routes of exposure (inhalation,	allergy to sensitive individual if the dust or particulate matter is
ingestion, skin and eye	ingested.
contact)	
(b) Symptoms related to	Dust may cause irritation to eyes and after inhalation. Prolonged
physical, chemical and	exposure may cause skin irritation.
toxicological characteristics (c) chronic effects	None known.
(d) Numerical measures of	None known.
toxicity	None known.
(e) whether hazardous	None.
chemical is listed in NTP report	
on carcinogens or has been	
found to be potential	
carcinogen in IARC or by	
OSHA	
12. Ecological Information	
(a) Ecotoxicity	Not classified
(b) Persistence and	Not established
degradability	ALCO ALPIA
(c) Bioaccumulative potential	Not established
(d) Mobility in soil	Not available
(e) Other adverse effects such as hazardous to the ozone	None
layer	
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13. Disposal considerations

Disposal recommendations	Dispose of in accordance with local, national and international		
Additional information	regulations.		
	Recycle the product after intended use as far possible		
14. Transport information			
Not regulated for transport in accordance with DOT, IMDG and IATA.			
15. Regulatory Informat			
Federal Regulatory Information			
OSHA Status	Not listed, non-hazardous		
EPA Clean Air Act Status	Not listed		
EPA Clean Water Act Status	Not listed		
TSCA Status	Polyvinyl chloride, Lime stone, Titanium dioxide are all listed on TSCA inventory (40 CFR710)		
CERCLA RQ	Not listed		
SARA Title III : PVC Sheet			
Section 302*	None * Reportable quantity of extremely hazardous substance, Sec 302 • Threshold planning quantity, extremely hazardous substance. Sec. 302		
Section 313**	None ** Toxic Chemical Sec. 313		
	** Category as required by Sec. 313 (40CFR37263 C) must be used on Toxic Release Inventory form		
Section 311/312***	None *** Hazard category for SARA Sec. 311/312 reporting H1= acute health hazard H2= chronic health hazard P3= fire hazard P4= sudden release of pressure hazard P5= reactive hazard		
RCRA Status	It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40CFR261. 20-24)		
16. Other Information, i	ncluding date of preparation or last revision		
Revision Date	1 st October 2016		
Other information	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard communication standard 29 CFR 1910.1200		
NFPA	HMIS		
Fire – 1	Health - 0		
Health – 0	Flammability – 1		
Reactivity – 0	Reactivity – 0		
Specific Hazard - None	Personal Protection Index - E		

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