Jain Irrigation Systems Ltd.





Jain Plastic Park, N.H.6, Bambhori, Jalgaon 425 001 (India) Tel: + 91 (0) 257 225 00 11 Fax: + 91 (0) 257 225 11 11

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

1. lde	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

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			
(h) Canditions for one	or heat source, open flames, hot surfaces.			
(b) Conditions for safe storage, including any incompatibilities	Avoid creating dust and use explosion proof electrical and lighting equipment. Avoid generation of static electric charge and use proper 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.			
8. Exposure controls /	nersonal protection			
Polyvinyl Chloride - CAS	Exposure limit : TLV (ACGIH – USA) 1 mg / m3 Respirable PNOC.			
number : 9002 – 86 – 2	ACGIH Chemical category – not classified as human carcinogen			
Calcium Carbonate - CAS number : 1317 – 65 - 3	Exposure limit: NIOSH REL (TWA): 10 mg / m3 total dust & 5 mg / m3 respirable dust. PEL (OSHA): 15 mg / m3 total dust & 5 mg / m3 respirable dust			
Titanium dioxide - CAS number : 13463 – 67 – 7	Exposure limit : TLV (ACGIH – USA) 10 mg / m3 ACGIH Chemical category – not classified as human carcinogen. PEL (OSHA) : 15 mg / m3 total dust			
(c) Individual protection measures (Personal protection equipment)	If the product is cut or fabricated there exists possibility for dust or 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. Sheet edges may be sharp and use appropriate gloves. Wear respiratory masks, full clothing during fabrication work. Wear protective goggles.Cloth shall be chemical resistant. Do not eat, smoke or drink			
	while working with the sheets			
9. Physical and chemic				
(a) Appearance (b) Odour	Solid No data available			
(c) Odor threshold	No data available No data available			
(d) pH	Not applicable			
(e) Melting point / freezing point	No data available			
(f) Initial boiling point and boiling range	Not applicable			
(g) Flash point	No data available			
(h) Evaporation rate (i) Flammability (Solid / gas)	Not applicable No data available			
(j) Upper / lower flammability or explosive limits	No data available			
(k) Vapor pressure	No data available			
(I) Vapor density	No data available			
(m) Relative density	No data available			
(n) Solubility	No data available			
(o) Partition coefficient :	No data available			

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n-Octanol / water	
(1)	No data available
temperature	N. 14
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No data available
temperature	Net emplicable
(r) Viscosity	Not applicable
10. Stability and Reactiv	itv
Reactivity	Product is stable under normal conditions
Chemical stability	Product is stable if stored and handled properly as highlighted in point
One modification ty	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.
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11. Toxicological Inform	
(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)	Dust may say a irritation to ayou and after inhelation. Prolonged
(b) Symptoms related to physical, chemical and	Dust may cause irritation to eyes and after inhalation. Prolonged exposure may cause skin irritation.
toxicological characteristics	exposure may cause skill irritation.
(c) chronic effects	None known.
(d) Numerical measures of	None known.
toxicity	
(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	
40 Faalania Hafa	
12. Ecological Informati	
(a) Ecotoxicity	Not classified
(b) Persistence and	Not established
degradability (c) Bioaccumulative potential	Not established
(d) Mobility in soil	Not established Not available
(e) Other adverse effects such	None
as hazardous to the ozone	Tions
layer	

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13. Disposal considerations

Disposal recommendations	Dispose of in accordance with local, national and international regulations.				
Additional information	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 Informati					
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)				
	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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