



Safety Data Sheet

Product: SkudoBoard HT

Issue Date: June 18, 2018

1. CHEMICAL AND COMPANY IDENTIFICATION

1.1	Product Name:	SkudoBoard HT
1.2	Chemical Classification	Flame Retardant PP Board
1.3	Product Operation Suggestions and Restrictions:	Construction
1.4	Company Introduction	
	Manufacturer/Supplier Name:	Skudo LLC
	Address:	11120 Zodiac Ln Dallas, TX 75229 USA
	Tel:	+1 (972) 993-0777
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	E-mail	info@skudousa.com
	Emergency Tel:	+1 (972) 993-0777
1.5	First Issue Date	June 18, 2018

2. HAZARDS OVERVIEW

2.1	Hazards Information	SkudoBoard HT
	Color:	Black or Grey.
	Physical State:	Board or Panel.
	Odor:	Inodorous or slight odor.
2.2	Hazard Classification:	No harm.
2.3	Signs and Precautionary Statements	
	Graphic Symbol:	None.
	Signal Word:	None.
2.4	Cardinal Symptom after Contact	
	Eye Protection:	Use safety glasses. Safety glasses should be consistent with Directive 89/686/EEC Category 2. If there is a potential for exposure to board which could cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.
	Skin Protection:	No precautions other than clean body-covering clothing should be needed.
	Hand Protection:	Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection, when needed.
	Respiratory Protection:	Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present. Use the following CE approved air-purifying respirator: When dust/mist are present use a Particulate filter, type P2. When combinations of vapors, acids, or dusts/mists are present use an organic vapor cartridge with a particulate pre-filter, type AP2.
	Ingestion:	Low toxicity. It may cause choking if swallowed.
2.5	Emergency Measures:	Avoid contact with eyes.
2.6	Other Hazards:	Unknown

3. COMPOSITION INFORMATION

3.1	Chemical Classification:	Compound Mixture
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3.2 Risk Composition:	Flame Retardant PP Board	
<u>Chemical Name</u>	<u>CAS#</u>	<u>% (w/w)</u>
Polypropylene	9003-07-0	55%-80%
Flame Retardant		1%-10%
Filler and assistant		1%-25%

4. FIRST AID MEASURES

4.1 First Aid Measures

Eye Contact: Flush eye thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a doctor, preferably an ophthalmologist.

Skin Contact: If molten material meets skin, do not apply ice but cool under ice water or running stream of water. Do not attempt to remove the material from the skin. Removal may result in severe tissue damage. Seek medical attention immediately.

Inhalation: Move person to fresh air; if effects occur, consult a doctor.

Ingestion: If swallowed, seek medical treatment. May cause gastrointestinal blockage. Do not induce vomiting unless directed to do so by medical personnel.

4.2 Notes to Doctor: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media: Water fog or fine spray. Dry powder fire extinguishers, carbon dioxide fire extinguishers, foam.
- 5.2 Prohibited Fire Extinguishing Agent: Unknown.
- 5.3 Special Drainage: None.
- 5.4 Special Fire Extinguishing Procedure: Evacuate personnel from fire. Isolate of fire and prohibit unwanted people into fire zone. Soak the burning material thoroughly with water to cool and prevent reignition. If the material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to cool fire zone.

Ingestion:	Extinguish small fire with hand-held dry power fire extinguisher or carbon dioxide extinguisher.
	If swallowed, seek medical treatment. May cause gastrointestinal blockage. Do not induce vomiting unless directed to do so by medical personnel.
5.5 Special Protective Equipment for Firefighters:	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective clothing (includes fire helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. EMERGENCY TREATMENT MEASURES FOR LEAK OUT

6.1 Personal Precautions:	Spilled material may cause a slipping hazard. Use appropriate safety equipment.
6.2 Environmental Precautions:	Prevent from entering soil, ditches, sewers, waterways and / or groundwater.
6.3 Elimination Method:	Contain spilled material if possible. Sweep up. Collect in suitable and properly labeled container.

7. HANDLING AND STORAGE

7.1 Handling Precautions:	Workers should be protected from the possibility of contact with molten resin. Do not get molten material in eyes, on skin or clothing. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static.
7.2 Storage Precautions:	Store in accordance with good manufacturing practices.
7.3 Unsuitable Packing Materials:	Unknown.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Industrial Hygiene Standards	
Exposure Limit:	Unknown
8.2 Engineering Controls	Good general ventilation should be sufficient for most conditions.
Ventilation	Local exhaust ventilation may be necessary for some operations.

8.3 Personal Protection

Respiratory Protection:	Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust/mist is present. The following should be effective types of air-purifying respirators: When dust/mist are present use a filter. When combinations of vapors, acids, or dusts/mists are present use an organic vapor cartridge with a particulate pre-filter.
Eye Protection:	Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. If exposure causes eye discomfort, use a full-face respirator.
Hand Protection:	Use gloves to protect from chemical injury. Selection of gloves will depend on the task. Use gloves with insulation for thermal.
Skin and Body Protection:	No precautions other than clean body-covering clothing should be needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Physical State:	Board or Panel
9.2	Color:	Black or Grey
9.3	Odor:	Inodorous or slight odor
9.4	pH	Not applicable
9.5	Melting Point:	329-329°F (165-200°C).
9.6	Boiling Point:	Not applicable
9.7	Flash Point:	Not tested
9.8	Blast Limit in Air	
	Upper	Not tested.
	Lower:	Not tested.
9.9	Vapor Density (25°C):	Not applicable.
9.10	Vapor Pressure air=1):	Not applicable.
9.11	Density:	0.9-1.1g/cm ³
9.12	Solubility:	Negligible.
9.13	Distribution Coefficient (N-oc-	Not tested.

tanol/Water):

9.14	Autoignition Temperature:	Not tested.
9.15	Decompose Temperature:	Not tested.
9.16	Odor Threshold:	Not tested.
9.17	Evaporation Rate:	Not applicable.
9.18	Flammability (Solid, Gas):	Not applicable.

10. STABILITY AND REACTIVITY

10.1	Stability:	Stable.
10.2	Conditions to Avoid:	Products can decompose at elevated temperature.
10.3	Incompatible Materials:	Unknown.
10.4	Hazardous Polymerization:	Will not occur.
10.5	Hazardous Decomposition:	Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may cause the releases of irritant smoke and other decomposition. When temperature exceeds the melting point, this product may release polymer fragments. Decomposition products could include and are not limited to: aldehydes, alcohols, organic acids and some other marginal hydrocarbons.

11. TOXICOLOGICAL INFORMATION

11.1	Exposure Ways:	Inhalation, skin contact and accidental ingestion.
11.2	Effects of Over Contact:	No notable harms under normal handling.
11.3	Acute Toxicity:	
	Eye Contact:	Direct contact may cause eye irritation experienced as mild discomfort and redness.
	Skin Absorption:	Estimated LD50, rabbit > 2000 mg/kg. No serious effects for transitory contact.
	Ingestion:	Estimated LD50, rat > 5000 mg/kg. Very low ingestion hazards under normal handling.
	Inhalation:	Estimated LC50, rat > 50 mg/1(4h, dusts/mist). No serious effects for transitory contact.
11.4	Chronic Toxicity	

Skin:	Repeated or long-time contact may cause skin irritation and dermatitis.
Ingestion:	Repeated or massive ingestion may cause physical harm.
Inhalation:	Not applicable.
11.5 Repeated Dose Toxicity:	Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.
11.6 Chronic Toxicity and Carcinogenicity:	Not applicable.
11.7 Growth Toxicity:	Not applicable.
11.8 Procreation Toxicity:	Not applicable.
11.9 Inheritance Toxicity:	Not applicable.

12. TOXICOLOGICAL INFORMATION

12.1 Ecotoxicity:	Not expected to be acutely toxic, but may cause adverse effects by physical/mechanical means.
12.2 Resistance and Degradability:	This water-insoluble polymeric solid is expected to be inert in the environment.
12.3 Migration in Soil:	It will remain in the soil in the terrestrial environment. And it will sink into the aquatic environment.

13. DISPOSAL CONSIDERATION

13.1 Product Waste Disposal Ways:	Disposal according to local regulatory.
13.2 Packing Waste Disposal Ways:	Disposal according to local regulatory.

14. TRANSPORT INFORMATION

14.1 Road and Rail Transport:	Not regulated.
14.2 Sea Transportation (IMDG):	Not regulated by IMDG codes.
14.3 Air Transportation (IATA):	Not regulated by IATA.
14.4 Specific Operational Requirements:	None.

15. REGULATORY INFORMATION

15.1	Applicable Regulations:	Regulations for the Safe Use of Chemicals in Workplace [(1996) 423#, sent by Department of Labor] Public Summons for General Rules of Chemicals Classification and Hazard [GB 13690-2009]
15.2	Chemical Storage	
	TSCA:	All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.
	AICS:	All substances contained in this product are listed or are exempt from requirements.
	DSL:	All substances contained in this product are listed on DSL Inventory or are exempt from DSL Inventory requirements.
	IECSC:	All substances contained in this product are listed or are exempt from requirements.
	EINECS:	All substances contained in this product are listed or are exempt from requirements.
	KECL:	All substances contained in this product are listed or are exempt from requirements.
	PICCS:	All substances contained in this product are listed or are exempt from requirements.
	HSNO:	All substances contained in this product are listed or are exempt from requirements.
	ENCS/ISHL:	All substances contained in this product are listed or are exempt from requirements.

16. OTHER INFORMATION

The product safety instructions in this safety data sheet are according to our existing knowledge and experience. This sheet does not describe the product components and specifications. Any public and/or for specific purpose product characteristics should not be removed from this data sheet. All users have responsibility and obligation to ensure the intellectual property rights of products and to abide the relevant laws and regulations.