1 PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Duro-Tuff®
Revision Date:	September 23, 2014
Version:	001
SDS Number:	001
Common Name:	Plasticized PVC Film, Sheeting Compound, Roofing Material
Chemical Family:	Mixture of organic and inorganic chemicals, all of which appear on the EPA inventory of industrial chemicals.
Chemical Formula:	All Plasticized Compounds.

Company Information

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2 HAZARDS IDENTIFICATION

Route of Entry:	Routes of entry during normal processing procedures may include inhalation, skin contact and eye contact.
Target Organs:	Antimony compounds are generally less toxic than antimony. Principal organs attacked include certain enzyme systems (protein and carbohydrate metabolism), heart, lungs and the mucous membranes of the respiratory tract. Chronic poisoning presents symptoms of dry throat, nausea, headache, sleeplessness, loss of appetite and dizziness.
Inhalation:	Vapors and fumes from processing (especially at elevated temperatures) may cause irritation to the nose, throat and upper respiratory tract.
Skin Contact:	Effects of overexposure to these organic plasticizers include moderate irritation to the skin.
Eye Contact:	Vapors and fumes from processing (especially at elevated temperatures) may cause irritation to the eyes. Effects of overexposure to these organic plasticizers include moderate irritation to the eyes.
Ingestion:	Unlikely.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Potentially Toxic Components	CAS#	Percentage by Wt.
Polyvinyl chloride	9002-86-2	50-60%
Organic plasticizers	68515-43-5	<45%
Titanium dioxide	13463-67-7	4-6%
Antimony trioxide	1309-64-4	<3.5%
Aliphatic hydrocarbons	Not Available	<2.5%
Soybean oil, epoxidized	8013-07-8	1-2%
Phenoxarsine, 10-, 10'-oxydi-	58-36-6	<0.1%

These products, as do most plastic products, contain chemicals which can be hazardous. These chemicals, however, are mixed and bound in the plastic and are not released except under extreme circumstances such as fire.

Under industry traditional post processing conditions, there can be trace exposure to plasticizer and residual solvent vapors.

Plasticized PVC film and sheets are a mixture of resin, modifiers, plasticizers, pigments, stabilizers, process aids, inerts and residual solvent.

4 FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. Seek medical attention.

Skin Contact: Flush skin thoroughly with soap and cool water for at least five minutes.

Eye Contact: Immediately flush eyes with potable water for at least 15 minutes, while forcibly holding eyelids apart. Seek medical attention.

Ingestion: Unlikely.

This product has no known toxic hazards. Toxic fumes and gases may be produced by combustion or high temperature decomposition.

NOTE TO PHYSICIAN:
This material has no significant toxic hazard. Hazardous fumes and gases that result from incomplete combustion and decomposition are carbon monoxide, low level cyanides, hydrogen chloride, NO_x, and unidentified products of hydrocarbon degradation.

5 FIRE FIGHTING MEASURES

Because PVC compounds contain chlorine in the polymer molecule, these materials are difficult to ignite. Like all organic materials, this product is combustible and will burn by application of intense heat. Protect from open flame and maintain proper clearance when using heating devices, etc.

Store away from easily ignited chemicals and materials as well as open flames.

UNUSUAL FIRE HAZARDS
Static sparking can occur during processing. Flammable materials should be removed from the immediate vicinity or controlled. The use of static suppressants and grounding devices is recommended.

When burned, the hazardous decomposition products that will result because of incomplete combustion include carbon monoxide, other unidentified products of hydrocarbon degradation, NO_x, low level cyanides and hydrogen chloride.

EXTINGUISHING MEDIA
Dry chemical, foam, water fog or spray.

SPECIAL FIRE FIGHTING PROCEDURES
Wear full protective equipment and NIOSH approved pressure demand, self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Not Applicable - soild sheeting.

7 HANDLING AND STORAGE

Handling Precautions: Not Applicable.
Storage Requirements: Not Applicable.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equip: Use heavy cotton or insulated gloves to handle hot plastic.

Safety glasses with side shields are recommended for all industrial workplaces.

Processes which generate vapors, dust or fumes should be performed with adequate ventilation. If necessary, use NIOSH approved chemical cartridge respirator.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Plasticized PVC Sheeting.		
Spec Grav./Density:	1.20 - 1.80	**Odor:**	Slight characteristic odor.
Boiling Point:	Not Applicable.	**Solubility:**	Insoluble.
Vapor Pressure:	Not Applicable.	**Percent Volatile:**	<2.0
Evap. Rate:	Not Applicable.	**Vapor Density:**	Not Applicable.

10 STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous Decomposition:	Hydrogen chloride, carbon monoxide, low level cyanides and Nox and other unidentified products of hydrocarbon degradation.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

No data is available on this product.

12 ECOLOGICAL INFORMATION

No data is available on this product.

13 DISPOSAL CONSIDERATIONS

Dispose in accordance with Local, State and Federal Regulations.

14 TRANSPORT INFORMATION

For domestic transportation purposes, vinyl products are not classified as hazardous by the U.S. Department of Transportation under Title 49 of the Code of Federal Regulations 1983 Edition.

15 REGULATORY INFORMATION

The hazardous components identified in Section 2 are bound within the PVC matrix of this product and are not expected to be released under normal conditions. These products are considered to be finished articles as per 29CFR1910.1200(c) and therefore exempt from the requirements of this standard.

Components	CAS#	Percentage	Codes
Antimony trioxide	1309-64-4	1-2%	CA Prop65, MASS, NJHS, PA
Polyvinyl chloride	9002-86-2	50-60%	CA Prop 65, TXESL
Phenoxarsine, 10, 10'-oxydi-	58-36-6	<0.1%	EHS302, MASS, NJHS, PA
Soybean oil, epoxidized	8013-07-8	1-2%	NJHS, PA
Titanium dioxide	13463-67-7	4-6%	CA Prop 65, MASS, NJHS, PA

California Proposition 65 - This product contains Antimony trioxide, a chemical known by the State of California to cause cancer.

Regulatory Key Descriptions
EHS302 = Extremely Hazardous Substances
CA Prop 65 = California Proposition 65
MASS = Massachusetts Hazardous Substances List
NJHS = New Jersey Right-To-Know Hazardous Substances
PA = Pennsylvania Right-To-Know List of Hazardous Substances
TXESL = Texas EffectsScreening Level

16 OTHER INFORMATION

The information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act of 1970, and applicable regulations, and should not be used for any other purpose. No warranty, express or implied, of merchantability, fitness for purpose or of any other nature regarding this data or the product is made herein.

This product is typical of consumer plastic products. Under traditional processing and handling methods no toxic hazard is anticipated.