

MATERIAL SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II – Europe

SECTION 1.- IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Data Revised: March, 2016

Previous: August, 2013

Identification of the Substance or Preparation

Product Name:

Emulblack 1848

Use of the Preparation:

It is designed especially for tread rubber and extruded goods this master batch produces compounds with excellent extrusion characteristics, abrasion resistance and tread wear.

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SECTION 2.- HAZARDS IDENTIFICATION

Emergency Overview:

Some fumes may be released upon heating or cross-linking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure.

Health Effects and symptoms:

Inhalation:

No risks known at temperatures between -20 and +40°C (-4 to +104°F). At high temperatures, fumes can be formed and may cause irritation of eyes and respiratory tracts.

Skin contact:

No risks known at temperatures between -20 and +40°C (-4 to +104°F). The exposure to molten material may cause severe burns.

Eye contact:

Dusts (especially when handling powders) may cause irritation.

Ingestion:

Low toxicity.

Sensitization:

No cases of sensitization in humans have been reported.

Chronic:

Not hazardous.

Human Health Hazard:

Aromatic Extract Oils are carcinogens, other components are skin sensitizers or may be irritants. If they are separated from the rubber

Environmental effects:

No significant environmental hazards are associated with this rubber release to the environment.

See section 11 for more detailed information on health effects and symptoms.

SECTION 3.- COMPOSITION / INFORMATION ON INGREDIENTS

Product definition (REACH):	Preparation		
Ingredients Name	CAS Number	EINECS Number	% by Weight
Styrene-butadiene Rubber	9003-55-8	-	41
Carbon Black (N339)	1333-86-4	215-609-9	35.2
Aromatic Oil	64742-04-7	-	27
Organic Acid	-	-	3.8
Soap	-	-	0.5
REACH Registration			
Monomer	Registration Number		
Butadiene	01-2119471988-16-0132		
Styrene	01-2119457861-32-0089		
This product contains no hazardous ingredients as defined under the criteria of the Federal OSHA Hazards Communication Standard 29 CFR 1910, 1200.			

SECTION 4.- FIRST AID MEASURES

First aid measures

Inhalation:

In case of asphyxia or a feeling of illness, after accidental exposure to fumes, which can be formed at high temperatures, remove the affected person into fresh air. Keep the victim at rest and in warm. If victim experiences breathing difficulties or loss of consciousness, give artificial respiration. Seek medical advice immediately.

Skin contact:

In case of burns caused by molten material, treat the affected part with running cold water (by spraying or immersion, for instance). No attempt should be made to detach polymer adhering to the skin or remove clothing stained with molten material. Cover the burnt areas with a cotton compress or sterilized gauze compresses. Seek medical advice immediately.

Eye contact:	In case of irritation, wash with copious volumes of water until irritation disappears. Seek medical advice, if necessary.
Ingestion:	Seek medical advice.

SECTION 5.- FIRE – FIGHTING MEASURES

Extinguishing media

Suitable: For minor fires, carbon dioxide or dry chemical powder. For large fires, foam & AFFF or water sprays (fog).

Not Suitable: Do not use water jets (stick jets) in the early stages of extinguishing fire since they could help to spread the flames.

Special exposure hazards: No specific fire or explosion hazard. Promptly insolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous combustion products: On combustion or when overheated forms Carbon dioxide, carbon monoxide and cracking products, hydrocarbons.

Special Protective equipment for fire – fighters: Normal work clothing (cotton, cotton 65% - polyester 35%). If contact with hot materials is possible, wear heat-insulating and chemicals proof gloves as well as face shield.

SECTION 6.- ACCIDENTAL RELEASE MEASURES

Personal precautions: No special measures required.

Environmental precautions: No special measures required.

Methods for cleaning

In soil: Recover the spilled material and place it in marked containers to facilitate its reuse or disposal. Dispose in a safe manner in accordance with local or national regulations.

On water: Prevent the spilled material for spreading. If the material has flowed out in a stream or a sewer, inform the authorities of the possible presence of floating matter. Clean up the water surface by creaming. Refer to a specialist for water disposal in a safe manner in accordance with local or national regulations.

Note: Handle as solid waste disposal, storage it in an approved land disposal site in accordance with applicable local, state or federal regulations.

SECTION 7.- HANDLING AND STORAGE

Handling precautions: None recommendation under normal conditions of use.

Storage: Store at ambient temperatures in a plastic or paper bags. Do not store near flammable materials. Store away from heat sources. Avoid static electricity buildup. All storage equipment should be provided with connections to earth. Store in a dry, well-ventilated area. Avoid dust buildup. Store out of sunlight or other sources of heat radiation.

Packaging materials
Recommended: Use original container

SECTION 8.- EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit values:

United States	ACGIH-TLV 5mh/m ³ (Recommended for polymer dust).
European Community	Not Determined.
France	Not Determined.
United Kingdom	Not Determined.
Denmark	Not Determined.
Belgium	Not Determined.

Recommended monitoring procedures: Organic Vapour

Risk management measures

Occupational exposure controls

Technical measures: Maintain good ventilation over production process.

Personal protection measures

Respiratory protection:

Not required under normal operating conditions. In case of risk of overexposure to fumes, or when normal precautions are insufficient, wear suitable respiratory equipment such as combination of filter type A2 B2-P2 following DIN 3181.

Hand protection:

Use of natural rubber gloves or neoprene.

Eye protection:

Avoid dust contact with eyes. Use safety glasses / goggles / spectacles.

Skin protection:

Use clothes of normal work clothing (cotton, cotton 65% - 35% polyester). Avoid dust buildup on skin, , which could cause abrasive irritation. If contact with hot materials is possible, wear heat insulating and chemicals proof gloves as well as face shield.

Hygiene measures:

Safety slip proof shoes in areas where spills or leaks can occur.

Environmental exposure controls

Technical measures:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state:	Solid
Color:	Black
Odor:	Slightly aromatic

Important health, safety and environmental information

Vapour pressure:	None
pH:	Not applicable
Boiling point / Boiling range:	Not determined
Evaporation rate:	Not applicable
Melting point / Melting rate:	>120°C (>248°F)
Viscosity:	Not determined
Water solubility:	Insoluble
Partition coefficient:	Not determined
Molecular Weight:	Not determined
Specific gravity:	Not determined
Percent volatile:	0.75 (moisture) max.
Relative density:	Not determined
Upper explosive limit:	20 gr/m ³

SECTION 10.- STABILITY AND REACTIVITY

Stability:	Stable at ambient temperatures and pressures.
Conditions to avoid:	Overheating
Materials to avoid:	Avoid proximity or contact with hot surfaces, flames, sparks and other strong oxidizing agents. Avoid dust buildup. Keep work place ventilated. All conductive materials should be adequately grounded.
Reactivity:	Stable.
Hazardous decomposition products:	On combustion or when overheated forms Carbon dioxide water (excess oxygen) carbon monoxide and cracking products hydrocarbons.
Hazardous polymerization:	Will not occur.

SECTION 11.- TOXICOLOGICAL INFORMATION

Toxicity to Humans: Aromatic Extract Oils are carcinogens, other components are skin sensitizers or may be irritants. If they are separated from the rubber.
None toxicity on animals is registered, as the Butadiene-Styrene copolymer so is regarded biologically inert.

Toxicity to Animals: Aromatic Extract Oils are IARC animal carcinogens.

SECTION 12.- ECOLOGICAL INFORMATION

Information related to ecological effects: The product is classified as inert material. No risks for plants or animals. Avoid material be swallowed by animals. Prevent the dispersion of this material into the environment. WGK class (Germany): Not applicable.

SECTION 13.- DISPOSAL CONSIDERATIONS

Methods of disposal of the preparation: Do not dispose of by means of sinks, drains or sewers or in the immediate environment. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste-to-waste codes specific to industrial sectors and processes according to the European Waste List (EWL)

Methods of disposal of the contaminated packaging: Where possible recycling is preferred to disposal. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

SECTION 14.- TRANSPORT INFORMATION

This material is not considered a transportation hazard under applicable ground, air or water regulations.

SCT (Transportation Dept.)	Classified as non-hazardous freight
ROAD (ADR) / RAIL (RID)	Not available
SEA (IMO-IMDG)	Not available
AIR (ICA/IATA)	Not available
VbF-Klasse	Not available

UN number:	None.
Class:	Not classified.
Proper shipping name:	Not classified.
Packing group:	Not classified.
Marine group:	Not classified.
International transportation identification:	Not classified.
U.S. Rail Regulations:	Not classified.

SECTION 15.- REGULATORY INFORMATION

Australia	AICS (Australian Inventory of Chemical Substances): Listed.
Canada	DSL (Domestic Substances List): Listed. NDSL (Non-Domestic Substances List).
China	IECS (Inventory on Existing Chemical Substances): Listed. MEP (Ministry of Environmental Protection).
EU	EINECS (European Inventory of Existing Chemical Substances): No Listed.
Japan	ENCS (Existing and New Chemical Substances): Listed. MITI (Ministry of International Trade and Industry).
Korea	KECI (Korean Existing Chemicals Inventory): Listed. ECTL (Environmental Control Technology Laboratory).
Philippines	PICCS (Philippine Inventory of Chemicals and Chemical Substances): Listed.
US	OSHA (Occupational Safety and Health Administration): Listed. TSCA (Toxic Substances Control Act): Listed. CERCLA reportable qty none SARA TITLE III: Section 302 None (Extremely hazardous substances) Section 311/312 None (Hazard categories) Section 313 None (Toxic chemicals)
México	STPS (Secretaria de Trabajo y Previsión Social): No Listed.
Switzerland	Swiss Chemical Inventory
New Zealand	ERMA (European Resin Manufacturers Association). NZIoC (New Zealand Inventory of Chemicals).

RoHS & Food Contact Regulations:

Do not contain intentionally introduced Lead (Pb), Cadmium (Cd), Mercury (HG) or Hexavalent Chromium (Cr+6+) an unintentional inclusion is <0.1% lead, mercury, or chromium and <0.01% cadmium by weight. This Rubber is in compliance with the restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS regulations) Directive 2002/95/EC and 2003/11/EC.

SECTION 16.- OTHER INFORMATION

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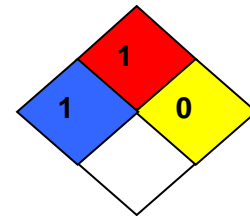
HMIS

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL	B

LEVEL OF RISK

- 0 MINIMAL
- 1 SLIGHT
- 2 MODERATE
- 3 SERIOUS
- 4 SEVERE

NFPA



European Facilities

None.

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