



NITRIFLEX

Date: 04/18/2011

Revision: 00

SDS: 040

SDS - SAFETY DATA SHEET

NITRICLEAN-3450 X.1

XNBR Rubber bale

*In compliance with REACH
Commission Regulation (EU) N° 453/2010*

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**1- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY/
UNDERTAKING**

Identification of the substance:

Product name: NITRICLEAN-3450 X.1
Company/undertaking identification: NITRIFLEX S.A. INDÚSTRIA E COMÉRCIO
Address: 1300, Marumbi
Duque de Caxias, RJ
25250-000 - Brazil
Telephone number: (55 21) 2776-3228 / 2128-3423
Emergency telephone: (55 21) 2776-3228 / 2128-3423

2- HAZARDS IDENTIFICATION

Most important hazards: Not classified as dangerous. Do not breathe fumes and vapors during all hot processing operations.

Product effects

Adverse effects to the human health: Not hazardous under normal conditions of storage and handling. Processing operations may produce vapors that may cause eye, skin, and respiratory tract irritations.

Environmental effects: It is not expected that this product presents impact to the environment.

Physical and chemical hazards: Not classified for physical hazards.

Classification of the substance or mixture: Not classified as hazardous.

Label elements according to Regulation 1272:2008 (GHS)

Symbol: Not applicable.

Signal word: Not applicable.

Hazard Statement: Not applicable.



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Precaution Statement: Not applicable.

Label elements according to Directive 67/548/EEC

Symbol: Not applicable.

Risk Phrases: Not classified.

Safety Phrases: Not applicable.

3- COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name: Acrylonitrile Terpolymer, Butadiene, Methacrylic Acid.

Synonyms: 2-Propenenitrile polymer, Methacrylic acid with 1,3-Butadiene.

CAS n°: 9010-81-5

EC n°: Not listed.

Ingredients or impurities that contribute to the hazard (%m): This product doesn't have impurities that contribute to the hazard classification.

4- FIRST-AID MEASURES

Inhalation: Remove to fresh air and keep at rest. Seek medical attention. Take this SDS.

Ingestion: Rinse mouth of victim with plenty of water. Seek medical attention. Take this SDS.

Skin contact: Remove contaminated clothing and shoes. Wash with plenty of soap and water. Seek medical attention. Take this SDS.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention. Take this SDS.

Most important symptoms and effects, both acute and delayed: The prolonged exposure to processing fumes and vapors can result on eye, nose, throat or dermal irritation with cough, redness and pain.



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Indication of any immediate medical attention and special treatment needed:	Avoid contact with this product while helping the victim, keep the victim warmed. Never give anything by mouth to an unconscious person. Symptomatic treatment should include, above all, measured of support as correction of hydro electrolytic and metabolic disturbances and respiratory failure.
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5- FIREFIGHTING MEASURES

Fire Extinguishing Media:	Combustible product. Compatible with water spray, dry chemical and alcohol resistant foam. Do not use carbon dioxide.
Special hazards arising from the substance or mixture:	May produce toxic fumes of carbon monoxide and dioxide if burning. The incomplete combustion may produce nitrogen oxides, acid fumes and toxic gases. The thermal decomposition products may cause a health hazard.
Advice for firefighters:	Self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing.

6- ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Removal of ignition sources:	Product is combustible. Ignition sources should be removed.
Provision of sufficient ventilation:	Use in a well ventilated area or with exhaustion system adequate to eliminate gases and vapors.
Prevention of inhalation and skin, mucous membranes and eyes contact:	Do not touch damage containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation, eye and skin contact. Use appropriate personal protective equipment as indicated in -- Section 8.
Environmental precautions:	Do not let this chemical enter the environment (soil, waterways and groundwater).
Methods and material for containment and cleaning up:	Sweep up, shovel or vacuum into labeled container for disposal or reuse into a safe place. Repackage uncontaminated rubber.

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7- HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes or vapors from hot rubbers. Ignition sources should be removed preventively. Use proper personal protective equipment as indicated in Section 8.

Hygiene advice: Do not eat, drink or smoke when using this product. Wash hands before eating, drinking, smoking or going to the toilet. Take off all contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities: Keep only in original container, in a cool, dry, well ventilated place, far from heat and ignition sources. Keep away from food. Keep container tightly closed. Keep out of reach of children.

Packaging materials: Bales: polyethylene film.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION**Specific control parameters****Occupational exposure limits:**

	Butadiene (ppm)	Acrylonitrile (ppm)	Methacrylic Acid (ppm)
TLV-TWA (ACGIH, 2010)	2	2	20
TLV-STEL (ACGIH, 2010)	NE	NE	NE
REL-TWA (NIOSH, 2010)	NE	1	20
REL-ST (NIOSH, 2010)	NE	NE	NE
REL- C (NIOSH, 2010)	NE	10	NE
IDLH (NIOSH, 2010)	NE	85	NE
PEL-TWA (OSHA, 2010)	1	2	NE
PEL - ST (OSHA, 2010)	5	NE	NE
PEL - C (OSHA, 2010)	NE	10	NE

NE: Not Established.



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Appropriate engineering controls:	Provide mechanical ventilation or direct exhaust to the external media during all hot processing operations. It is recommended safety shower and eye bath available near work site. The engineering controls measures are the most effective to reduce exposure to the product.
Individual protection measures, such as personal protective equipment	
Eye/face protection:	Safety wide vision goggles. Avoid wearing contact lenses while using this product.
Skin and hand protection:	Natural rubber clothing, boots and gloves.
Respiratory protection:	Respiratory protection equipment, only if the inhalation of this product becomes possible by some procedure.
Thermal hazard:	Complete air-ventilated suit, with air supply, or any thermo-resistant clothing available.
Environmental exposure controls:	Do not discharge directly into the environment or into the sewer system. The dilution water from fire fighting can cause pollution.

9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, bale.
Odor:	Characteristic.
Odor threshold:	Not established.
pH:	Not applicable (solid).
Melting point/freezing point:	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flashpoint:	300°C
Evaporation Rate	Not applicable.
Flammability:	Combustible.
Upper/lower flammability or explosive limits:	Not established.
Vapour density (Air=1):	Not applicable.



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Vapour Pressure (mm Hg):	Not applicable.
Relative density:	~ 0,98
Solubility:	Immiscible on water.
Partition coefficient: n-octanol/water:	Not applicable.
Auto-ignition temperature:	373°C
Decomposition temperature:	Not applicable.
Explosive properties:	Not applicable.
Oxidizing properties:	No oxidizing properties.

10- STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of storage and handling. Polymerization will not occur.
Possibility of hazardous reactions:	There are no known hazardous reactions with the product.
Incompatible materials:	There are no known incompatible materials.
Conditions to avoid:	Product combustible. High temperatures and ignition sources.
Hazardous decomposition products:	Toxic fumes of carbon and nitrogen oxides, acidic fumes and toxic gas.

11- TOXICOLOGICAL INFORMATION

Acute toxicity:	Not hazardous under normal conditions of handling. The ingredients that contribute to the hazard are incorporated to the product so that exposure is not expected.
Skin corrosion/irritation:	It is not expected skin corrosion/irritation.
Serious eye damage/irritation:	In case of product contact, may cause slight eye irritation with redness and pain.



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Respiratory or skin sensitization:	It is not expected any sensitization.
Germ cell mutagenicity:	There is no relevant data of germ cell mutagenicity.
Carcinogenicity:	This product it is not listed as carcinogenic to humans (IARC, ACGIH, NIOSH).
Reproductive toxicity:	There is no relevant data of reproductive toxicity.
STOT – single exposure:	Hot fumes or vapors which may form during processing can cause irritation to the respiratory tract, skin and eyes with redness, pain, tears and cough.
STOT – repeated exposure:	Repeated exposure to hot material may cause thermal burns.
Aspiration hazard:	There is no relevant data of aspiration hazard.

12- ECOLOGICAL INFORMATION

Toxicity:	Not classified as hazardous for aquatic life.
Persistence and degradability:	It is expected high persistence and low degradability.
Bioaccumulative potential:	It is expected low bioaccumulative potential in aquatic organisms.
Mobility in soil:	It is expected low mobility in soil.
Results of PBT and vPvB assessment:	Not available.

13- DISPOSAL CONSIDERATION

Product:	Reuse if possible. The treatment and disposal should be evaluated specifically for each product. Can be deposited in landfills, sent to an appropriate incineration or other means of disposal provided they meet the requirements of local law. Recycling can be applied provided they obey the relevant laws.
Product waste:	Keep the product remains in their original containers and properly sealed. Disposal should be performed as established for the product.



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Contaminated packaging: Reuse if possible. In some cases the packaging should be returned to the registering company or supplier. Recycling can be applied provided they obey the relevant laws.

14- TRANSPORT INFORMATION

National and international regulations

Land (Road/rail): UN – “United Nations”
Recommendations on the TRANSPORT OF DANGEROUS GOODS.
Model Regulations, 16th Edition, 2009.

Waterways (sea/inland): IMO - “International Maritime Organization”
International Maritime Dangerous Goods Code (IMDG Code) -
Incorporating Amendment 34-08; 2008 Edition.

Air: IATA - “International Air Transport Association”
Dangerous Goods Regulation (DGR) - 51th Edition, 2010.

UN number: Not classified as hazardous for transport.

UN proper shipping name: Not applicable.

Transport hazard class: Not applicable.

Packing group: Not applicable.

Environmental hazards: Not hazardous.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: It's not listed.



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15- REGULATORY INFORMATION

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

Regulation 1272:2008: GHS, United Nations, 3th Revised Edition, 2009

ECB: Directives 67/548 e 1999/45

16- OTHER INFORMATION

The NITRIFLEX warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is responsibility of the product user enterprise to promote the training of its employees and contractors about the possible risks arising from the product.

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists

CAS - Chemical abstracts service

EC - European Community

IARC – International Agency of Research on Cancer

IDLH – Immediately Dangerous to Life or Health

NIOSH - National Institute for Occupational Safety and Health

OSHA - Occupational Safety & Health Administration

PEL – Permissible exposure limit

REL – C - Recommended Exposure Limit - Ceiling

REL - Recommended Exposure Limit

STEL – Short Term Exposure Limit

STEL/ST – Threshold Limit Values

TLV - Threshold Limit Value

TWA - Time Weighted Average
