

Material Safety Data Sheet

No.029064364485302

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Product Name: NBR-8032

1. PRODUCT AND COMPANY IDENTIFICATION

Company: TAKEHARA RUBBER CO.,LTD..
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2.COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name: Mixture
Chemical Family: NBR/PVC Polymer blend

- ① Acrylonitrile-butadiene Copolymer
- ② Poly vinyl chloride(PVC)
- ③ Compounding Ingredient

	①	②	③
COMPOSITION	100%		
CAS REGISTRY NUMBER	9003-18-3	9002-86-2	Confidential
	Listed in the TSCA Inventory		
UN CLASS and UN NUMBER	Not applicable		

3.HAZARDS IDENTIFICATION

This mixture has not been evaluated as a whole. All ingredients are bound in a polymer matrix and potential for hazardous exposure as shipped is minimal.

However, some fumes may be released upon heating or vulcanization and the end user(fabricator) must take the necessary precautions(mechanical ventilation, respirator program, etc)to protect his employees from exposure. (See Section7 Special Precautions)

The following ingredients are considered hazardous OSHA 29 CFR 1910.1200.

<u>Component</u>	<u>Cont.(wt %)</u>	<u>CAS No.</u>	<u>Chemical Formula</u>
Carbon Black	20~30	1333-86-4	IARC Group 2B

4.FIRST-AID MEASURES

Inhalation Consult physician if respiratory irritation occurs.

Eye Consult physician if irritation occurs.

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Skin

Physical form should preclude any harmful effect from contact.

Ingestion

Consult a physician.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Water, ABC dry chemical, or Protein type air foams are recommended media.

Fire Fighting Instructions

Wear positive pressure self-contained breathing apparatus(SCBA)during the attack phase of fire fighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

Flammable Properties

Toxic gases may be formed upon combustion and represents a hazard to fire fighters. See Section 10 for additional information on combustion products.

6. ACCIDENTAL RELEASE MEASURES

If the material is released or spilled, sweep, shovel, or vacuum crumbs or chunks into closed containers for reuse or disposal

7. HANDLING AND STRAGE

During normal processing, virtually all compounds will emit fumes and vapors when heated to processing temperatures.

The concentration and composition of these vapors will depend on variables such as the specific formulation and processing method and temperature.

Always process compounds under well ventilated conditions and avoid continued or prolonged breathing of process vapors.

Wash thoroughly after processing compound, especially before eating, smoking or using toilet facilities. Do not use processing equipment to heat food. Clean up following normal processing should be performed under well ventilated condition. Compounds may be held at process temperatures for a short time without significant thermal degradation. However exposure to either elevated temperature or excessive time will result in decomposition. Equipment should not be shut down for extended time periods with compound in it or decomposition may occur.

Processing fume condensates, which may include toxic contaminants, may be combustible and should be periodically removed from exhaust hoods ductwork, and other surfaces.

Protective clothing, including impervious gloves, should be worn during cleanup operation to prevent skin contact. Store in a cool, dry place away from direct light to maintain quality.

Abnormal condition such as equipment malfunction or using improper equipment or procedures, or hung-up or stagnation of material during processing may cause decomposition.

Employees involved in removing decomposing material should be provided suitable air-supplied respirators ,such as an approved positive pressure self-contained breathing apparatus.

Compounding ingredients added to compound product may require special handling.

It is the users responsibility to follow the recommended precautions of the individual additive suppliers.

Post-processing operations at your workplace or at your customer's workplace involving heat sufficient to result in polymer breakdown emitting smoke and fumes should always be conducted in such a manner to avoid inhalation of fumes.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation	Effective general and, if necessary, local exhaust ventilation must always be provided to draw fumes or vapors away from workers to prevent routine inhalation.
Respiratory Protection	May be necessary if mechanical ventilation is insufficient.
Protective Equipment	During processing operations, safety glasses and/or goggles suitable for keeping dust or particulate matter out of the eyes should be worn when eye contact is anticipated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Colour:	Black
Odour:	Mild Odour
PH:	NA (Not Available)
Melting point:	NA
Flashpoint:	Unknown
Flammable Limits in Air % by Volume	NA
Specific Gravity:	1.37 (23°C)
Solubility in Water	Insoluable

10. STABILITY AND REACTIVITY

Conditions to avoid:	Overheating
Stability	Stable
Materials to avoid:	Strong oxidizers
Hazardous Reactions / Decomposition Products:	Oxides of Co, CO ₂ , HCl, Cl ₂

11. TOXICOLOGICAL INFORMATION

Carbon black is one of the compounding ingredients
Carbon black: IARC Group 2B Carcinogenic to humans

12. ECOLOGICAL INFORMATION

No information available

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13. DISPOSAL CONSIDERATIONS

It is the generator responsibility to determine, per the regulation, the applicability of the Resource Conservation and Recovery Act(RCRA), as well as all state, local or other governmental agency waste disposal regulations, to the particular waste materials prior treatment or disposal. Comply with all federal, state and local regulations.

14. TRANSPORT INFORMATION

Not defined or designated as a hazardous material by the U.S. Department of Transportation under Title 49 of the Code of Federal Regulations.

15. REGULATORY INFORMATION

This product and all components are listed on the U.S.EPA Toxic Substances Control Act Inventory.

16. OTHER INFORMATION

MEDICAL USE:CAUTION: Do not use in medical applications involving permanent implantation in the human body.

Reference:

1. IARC Monographs on the evaluation of the carcinogenic risk of chemicals to humans, volume 65(1996)

User's Responsibility

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation must be examined to determine, if, or where additional precautions may be necessary.

All health and safety information contained in this bulletin must be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user.