



M A T E R I A L S A F E T Y D A T A S H E E T

NBP6300

Section 1 – Product and Company Identification

- a. **Product name:** NBP6300 (ACRYLONITRILE-BUTADIENE RUBBER)
Product code : NBP6300
- b. **Recommended use of the chemical and restrictions on use**
General use : brake pad 2nd binder, PVC shoes, adhesives, PVC gasket, asphalt reforming agent, etc.
Restriction on Use : Not available

2. Hazards identification

- a. **Hazard classification; Not classifiable**
- b. **Label elements including precautionary statements**
- Pictograms; Not applicable
 - Signal words; Not applicable
 - Hazard statements; Not applicable
 - Precautionary statements; Not applicable
- c. **Other hazards which do not result in classification (e.g. dust explosion hazard)**
NFPA(0-4) : health=1, Flammability=1, Reactivity =0
0=Insignificant, 1=slight, 2=Moderate, 3=High, 4=Extreme

3. Composition/Information on ingredients

Chemical Name	Other name	CAS No or Identification no	Content (%)
Acrylonitrile-butadiene rubber	NBR	9003-18-3	90
Calcium carbonate.	CaCO ₃	471-34-1	10

4. First aid measures

- a. **Eye contact** Flush eyes 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 physician, preferably an ophthalmologist.
- b. **Skin contact** Wash skin with plenty of water.
- c. **Inhalation** Move person to fresh air; if effects occur, consult a physician.
- d. **Ingestion** No emergency medical treatment necessary.

e. Most important acute and delayed symptoms/effects

Not available.

f. First aid and notes for physicians No specific antidote. Treatment of exposure should be directed at the control of symptoms and the condition of the patient.

5. Fire-Fighting measures

a. Suitable (and unsuitable) extinguishing media Suitable extinguishing media; Use an extinguishing agent suitable for the surrounding fire. Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. foam Unsuitable extinguishing media: None Known.

b. Specific hazards arising from the chemical (e.g. hazardous combustion products) Dense smoke is emitted when burned without sufficient oxygen.

c. Special protective equipment and precautions for fire-fighters Special protective equipment for fire fighters; Wear positive-pressure self-contained breathing apparatus(SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance. Fire fighting procedures; Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone.

6. Accidental release measures

a. Measures required for personal protection and protective equipment

No special measures required.

b. Measures required for environment protection No special measures required.

c. Clean-up and removal method Sweep up. Recover spilled material if possible. Collect in suitable containers for disposal or reuse.

7. Handling and storage

a. Precautions for safe handling Provided good ventilation and/or local exhaust systems are used. Avoid prolonged or repeated contact with skin. Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. Take precautionary measures against static discharges. Electrically bond and ground all containers and equipment before transfer or use of material.

b. Conditions for safe storage (including incompatibilities)

Minimize sources of ignition, such as static build-up, heat, spark or flame. Store in a dry place. Store away from direct sunlight.

8. Exposure controls & personal protection

a. Exposure limits of the chemical substance, biological exposure limits and etc.

None established.

b. Appropriate engineering controls

Ventilation; Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

c. Personal protective equipment

Protection of respiratory system; Use an approved air-purifying respirator when vapours are generated at increased temperatures or when dust or mist is present. Eye protection; Protective goggles with side shield or tightly fitting protective goggles. 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. Body protection; No precautions other than clean body-covering clothing should be needed.

9. Physical and chemical properties

a. Appearance (physical state, colour, etc.) Solid (powder), White

b. Odour Characteristic(Slight)

c. Odour threshold. Not applicable

d. pH Not applicable

e. Melting point/freezing point. Not applicable

f. Initial boiling point and boiling range. Not applicable

g. Flash point Not applicable

h. Evaporation rate Not applicable

i. Flammability (solid, gas). Not applicable

j. Upper/lower flammable or explosive limits. Not applicable

k. Vapour pressure. Not applicable

l. Solubility. Insoluble in water

m. Vapour density. Not applicable

n. Specific gravity. 0.99 (based on water)

o. Partition coefficient : n-octanol/water. Not applicable

p. Auto-ignition temperature Not applicable

q. Decomposition temperature. Not applicable

r. Viscosity Not applicable

s. Molecular weight. Not applicable

10. Stability and reactivity

a. Chemical stability Stable under recommended storage conditions.

b. Possibility of hazardous reactions Will not occur

c. Conditions to avoid (e.g. static discharge, shock, vibration, etc.)

Avoid temperatures above 200 (392). Product contains residual unsaturation which can undergo exothermic

oxidative degradation. Accumulation of product in areas exposed to elevated temperatures for extended periods in air may result in self-heating and autoignition. Avoid direct sunlight.

- d. Incompatible materials** Avoid contact with oxidizing materials.
- e. Hazardous decomposition products** Caused by smoldering and incomplete combustion toxic fumes mainly consisting of CO and CO₂ may be developed. Degradation products of the polymers and their additives may also be formed.

11. Toxicological information

a. Information on the likely routes of exposure

(Respiratory system) Not classifiable
(Oral) Not classifiable
(Eye · skin) Not classifiable

b. Delayed and immediate effects and chronic effects from short or long term exposure

Acute toxicity (All routes of possible exposure shall be mentioned.)

- Acute oral toxicity; Not available
- Acute dermal toxicity; Not available
- Acute inhalation toxicity; Not available

Skin corrosion/irritation Not classifiable.

Serious eye damage/eye irritation Not classifiable.

Respiratory sensitization Not classifiable.

Skin sensitization Not classifiable.

Carcinogenicity Not Classifiable

Not Classifiable as a carcinogen in NTP, IARC IARC Group 3
(Not classifiable as to its carcinogenicity to humans)

Germ cell mutagenicity Not available

Reproductive toxicity Not Classifiable

Specific target organ toxicity (single exposure) Not available

Specific target organ toxicity (repeated exposure) Not available

Aspiration hazard Not available

c. Numerical measures of toxicity (acute toxicity estimation (ATE), etc.)

12. Ecological information

a. Aquatic and terrestrial ecotoxicity Not available

b. Persistence and degradability Not available

c. Bioaccumulation Not available

d. Mobility in soil Not available

e. Other adverse effects Not available

13. Disposal considerations

a. Disposal methods The user of this product must properly characterize the waste/container generated from the use of this product in

accordance with all applicable federal, state and/or local laws and regulations in order to determine the proper disposal of the waste in accordance with all applicable federal, state and/or local laws and regulations.

- b. Precautions for disposal (including the disposal method of contaminated containers and packages)** The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities. Dispose of waste in accordance with local regulation.

14. Transport information

- a. UN number Not available
- b. UN proper shipping name Not available
- c. Transport hazard classes Not available
- d. Packing group, if applicable Not available
- e. Marine pollutant (yes/no) Not available
- f. Information on any special precautions, which a user needs to be aware of, or needs to comply with in connection with transport**
- Type of extraordinary step in fire; F-A
- Type of extraordinary step in spill; Not applicable
- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

15. Regulatory information

- a. Industrial Safety and Health Law** This product is not subject to the chemical for classification and labeling under ISHL Article 41.
- This product is not subject to the chemical needs monitoring workplace exposure limit under ISHL Article 42.
- This product is not subject to the chemical specified the exposure limit under ISHL Article 42., Public notice 2008-2.
- This product is not contain a chemical subject to regulated hazardous substances under Industrial Health Standards Article 166, Table 7.
- b. Toxic Chemical Control Law** This product is not classified as Toxic chemical and Observational chemical under TCCA Article 2.3. and 2.4.
- c. Dangerous Goods Safety Control Law (from Chap.5 in old MSDS)**
- This product is not classified under the Presidential decree of Dangerous goods Safety Management Law, Revision 2006.05.25, Table 1.
- d. Wastes Management Law (from Chap.13 in old MSDS)** This product is classified as Waste beside Designated Waste under The Presidential decree of

Waste Management Law, Table 1.

e. Other regulations in domestic and foreign countries

POPs Management Law : Not applicable

Rotterdam Convention on Harmful Chemicals & Pesticides :
Not applicable

Stockholm Convention on Persistent Organic Pollutants : Not
applicable

Montreal Protocol on Substances That Deplete the Ozone
Layer : Not applicable

EU Classification : Not available

Administration Information of U.S.A

- OSHA regulation (29CFR1910.119); Not applicable

- CERCLA 103 regulation (40CFR302.4); Not applicable

- EPCRA 302 regulation (40CFR355.30); Not applicable

- EPCRA 304 regulation (40CFR355.40); Not applicable

- EPCRA 313 regulation (40CFR372.65); Not applicable

16. Other information

a. Sources of reference materials Handbook of Industrial toxication, SHINKWANGPUB,
TOXNET, U.S. National Library of Medicine, NCIS, National
Institute of Environmental Research(<http://ncis.nier.go.kr>),
Hazardous material information management system,
National Emergency Management Agency
(<http://hazmat.nema.go.kr>), IUCLID Chemical Data Sheet, EC-
ECB

b. The first date of preparation (from Chap.1 in old MSDS)

2008. 04. 28

c. Number of revision times and the latest revision date (from Chap.1 in old MSDS)

2009. 02. 06 (Rev.1)

d. Others

The Data given here is based on current knowledge and
experience. The purpose of this Safety Data Sheet is to
describe the products in terms of their safety requirements.
The above details do not imply any guarantee concerning
composition, properties or performance.