



MATERIAL SAFETY DATA SHEET(MSDS)

DATE 2019-11-22

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1. IDENTIFICATION OF PRODUCT & COMPANY

- 1) Trade Name : NBR FLOAT
- 2) Chemical Name : NBR Foam (Synthetic Rubber)
- 3) Name of Raw Material : SMC-61M (per SM Inc. Formulation)
- 4) Manufacturer : SM Inc.
67-13, Juseok-ro 80beon-gil, Hwaseong-si, Gyeonggi-do, Republic of Korea
Emergency Phone : 82-31-8047-5152 FAX : 82-31-8047-5154
82-10-5274-0462(24 hours available)

2. COMPOSITION, INFORMATION ON INGREDIENTS

1) Substance : NBR synthetic rubber

2) Composition :

Pigments	CAS No.	%
High NBR	9003-18-3	35%
Phenol resin	9003-35-4	20%
Sulfur	7704-34-9	20%
Carbon	7440-44-0	15%
Others	-	10%

3) During manufacturing process, hydrogen sulfide (CAS No. 7783-06-4, less than 10 ppm) and ammonia (CAS No. 7664-41-7, less than 50 ppm) take places, however the remaining ingredients are not hazardous as defined in international standard.

3. HAZARDS IDENTIFICATION

- Effects of overexposure : May cause transient eye/skin irritation in sensitive individuals.
May cause nose/ throat irritation and headache while grinding or cutting.

- 1) NFPA RATINGS (SCALE 0~4) : HEALTH = 0, FIRE = 1, REACTIVITY =1
- 2) Eye Contact : Flush eyes with water
- 3) Skin Contact : Wash thoroughly with soap and water
- 4) Ingestion : Not a likely route of exposure. Seek medical attention



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4. FIRST-AID MEASURES

- 1) Inhalation : Remove to fresh air ! – Seek medical attention
- 2) Skin Contact : Wash promptly with soap and water
- 3) Eye Contact : Immediately flush eyes with plenty amounts of water and get medical attention

5. FIRE-FIGHTING MEASURES

- 1) Flash Point & Method : Not applicable
- 2) Flammable Limits : Not applicable
- 3) Extinguishing Media : Water, Dry Chemical, CO₂, Foam
- 4) Special Fire Fighting Procedures
: Toxic fumes may evolve during a fire. Fire fighters should wear full body protection
- 5) Unusual Fire and Explosion Hazards : None

6. ACCIDENTAL RELEASE MEASURES

- 1) Personal Precaution : When crushing, grinding, or heating material, vapors and dust should be exhausted. Use of this product in received form will not present a health hazard.
- 2) Environmental Precaution : Residual amounts of hydrogen sulfide may be emitted during machining. Over exposure is very bad due to irritating nature of hydrogen sulfide.
- 3) Method for Cleaning Up : Normal clean up.

7. HANDLING AND STORAGE

- Cool dry area is needed, because high temperature may cause decomposition to toxic fumes.

8. ENGINEERING CONTROLS / PERSONAL PROTECTION



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- 1) Respiratory Protection : Not normally required. May be necessary if airborne dust is present while grinding or machining.
- 2) Ventilation
Local : Required if dust levels exceed nuisance dust limits or vapors are present under heat condition.
General : Recommended as with all industrial operations.
- 3) Personal Protection
Hand : Gloves as needed to avoid skin contact
Eye : Safety glasses or goggles.
Skin : Gloves as needed to avoid skin contact.
Other : Not Applicable

9. HAZARDS IDENTIFICATION

- 1) Hand / Skin Protection : Gloves
- 2) Eye Protection : Safety glasses or goggles

10. PHYSICAL AND CHEMICAL PROPERTIES

- 1) Appearance : Solid, Black hard rubber
- 2) Odor : Slightly sulfur
- 3) pH : Not applicable
- 4) Boiling Point : Not applicable
- 5) Flash Point : Not applicable
- 6) Viscosity : Not applicable
- 7) Specific Gravity : 0.2 ~ 0.3 @ 25°C

11. STABILITY AND REACTIVITY

- Material is stable under normal temperature and pressure
- Hazardous polymerization does not occur
- Hazardous decomposition may cause evolving toxic fumes

12. TOXICOLOGICAL INFORMATION

- Overexposure is not recommendable only in case of decomposition



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13. ECOLOGICAL INFORMATION

· Not Applicable

14. DISPOSAL CONSIDERATIONS

- 1) Disposal of Waste : Landfill
- 2) Disposal of Packaging : Landfill
- 3) National of Regional regulations : Not known.

15. TRANSPORT INFORMATION

· Not Applicable

16. REGULATORY INFORMATION

- TSCA (Toxic Substances Control Act) : All ingredients are TSCA listed
- The Others : Not Applicable

17. OTHER INFORMATION(Restriction of the use of Hazardous Substances)



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Heavy Metals

Test Item	Unit	Result	Test Method
Cr ⁺⁶	mg/kg	Not Detected	IEC 62321-7-2:2017
Hg	mg/kg	Not Detected	IEC 62321-4:2013
Pb	mg/kg	Not Detected	IEC 62321-5:2013
Cd	mg/kg	Not Detected	IEC 62321-5:2013

Flame Retardants

Test Item	Unit	Result	Test Method
PBBs	mg/kg	Not Detected	IEC 62321-6:2015
PBDEs	mg/kg	Not Detected	IEC 62321-6:2015

Phthalates

Test Item	Unit	Result	Test Method
DBP	mg/kg	Not Detected	IEC 62321-8:2017
BBP	mg/kg	Not Detected	IEC 62321-8:2017
DEHP	mg/kg	Not Detected	IEC 62321-8:2017
DIBP	mg/kg	Not Detected	IEC 62321-8:2017

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