



MATERIAL SAFETY DATA SHEET NATURLOOP EB

Reg. No. : 054/MSDS/GH/III/2021
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Prepared by : PT. Harapan Interaksi Swadaya, Tangerang – Banten INDONESIA

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME : NATURLOOP
BASE RESIN : BIOPOLYMER
MANUFACTURER : PT. Harapan Interaksi Swadaya
Jalan Raya Serang KM 13. Kawasan Bumindo RT 012 RW 05
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GRADE NAME : **NATURLOOP EB**
USE OF THE SUBSTANCE :
INDUSTRY SECTOR : Extrusion Blow Film processing industry
PRODUCT USE : Shopping Bag, Polymailer Bag, Daily Landfill Cover, Packaging,
Glove, Garbage Bag, Fruit Bag, etc.

CHEMICAL NAME : not applicable
MOLECULAR FORMULA : not applicable
MOLECULAR WEIGHT : not applicable

2. COMPOSITION ON INGREDIENTS

COMPOSITION	: <i>Weight %</i>	<i>Component</i>
	30	Starch
	70	Biodegradable Polymer or Synthetic Possible, and Additives

3. HAZARD IDENTIFICATION

Main Hazard Not classified as hazardous

Potential health effects

Eye contact	Particulates may scratch eye surfaces or cause mechanical irritation
Skin contact	Negligible hazard at ambient temperatures (-18°C to 38°C). Exposure to hot material may cause thermal burns
Inhalation	Negligible hazard at ambient temperatures (-18°C to 38°C). Vapors which may be formed at elevated temperatures may be irritating to respiratory tract
Ingestion	Minimal toxicity

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4. FIRST AID MEASURE

Eye	If material contacts the eye, flush immediately with plenty of water. Get medical attention
Skin	If molten material contacts the skin, cool as quickly as possible. Do not peel the material from skin. Take for medical treatment
Inhalation	If symptomatic, move to fresh air. Get medical attention if symptoms persist
Ingestion	Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary

5. FIRE AND EXPLOSION HAZARD DATA

SPECIAL FIRE-FIGHTING PROCEDURES

Use water spray, carbon dioxide, dry chemical, alcohol-type, or universal-type foams applied by manufacturer's recommended technique

SPECIAL FIRE AND EXPLOSION HAZARDS

Avoid accumulation and dispersion of dust to reduce explosion potential

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING

Use self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow it to evacuate through the sanitary system.

7. HANDLING AND STORAGE PRECAUTIONS

ADVICE ON SAFE HANDLING

Ensure good general ventilation in the workplace, local exhaust ventilation may be necessary, especially when emptying containers

REQUIREMENTS FOR STORAGE ROOMS AND VESSELS

Keep container tightly closed in a cool, well ventilated place. Protect from moisture and direct sunlight

OTHER PRECAUTIONS

Prevent accumulation of dust particle; operate to ensure no system leaks develop; and maintain proper equipment grounding at all times.

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Exposure limits have not been established or are not applicable unless listed below:

VENTILATION	Although general room ventilation should be adequate in most applications, local exhaust ventilation is recommended for control of airborne dust, fumes and vapors, particularly in confined areas.
RESPIRATORY PROTECTION	Use respirator if unable to control airborne dust, fumes and vapors.
EYE PROTECTION	Use eye protection when processing
SKIN PROTECTION	Use skin protection when processing

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Control Measures	Use only in well ventilated area, minimum 6 air changes per hour.
Respiratory Protection	Use Dust respirator. To minimize risk of overexposure (heated above 300 °C) to dust, vapor or fumes, it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated.
Hand Protection	Direct contact with materials normally lead to skin light irritation. However, unnecessary contact with the material should be avoided.
Eye Protection	If there is risk of exposure to dust or splashing material, safety glasses should be worn.
Body Protection	Standard work clothes and safety shoes.
Exposure Limits	Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES DATA

For detail composition, please refer to Quality Certificate

FORM	: 4-5 mm ϕ solid pellet
COLOUR	: white to brown
ODOUR	: odorless
DENSITY	: 1.26 g/cm ³
MELT INDEX (2.16 kg)	: 5 g/10 min
MELTING POINT	: 110°C
BOILING POINT	: not applicable
FLASH POINT	: not applicable
SOLUBILITY IN WATER	: insoluble

10. STABILITY AND REACTIVITY DATA

STABILITY	: Stable under recommended storage conditions
CONDITION TO AVOID	: Heat
HAZARDOUS DECOMPOSITION PRODUCT	: Hazardous decomposition products formed under fire conditions

11. TOXICOLOGICAL INFORMATION

Not hazardous at normal condition to the human body. Please refer to health hazard data

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12. ECOLOGICAL INFORMATION

Ecotoxicity	: Not affect seriously on system of animal, safe & biologically digested properly in in vivo test (Vogel H.G., 2002)
BOD5 and COD5	: not available
Degradability	: biodegradable
Toxicity	: Passed per RoHS Directive

13. DISPOSAL CONSIDERATION

Disposal may be subject to national or local laws, incinerate

14. TRANSPORTATION INFORMATION

Transportation classification	: Not controlled under DOT (USA), TDG (Canada), ADR (Europe), IMDG and IATA
Identification	: Not applicable
Special Provision for transport	: Not applicable

15. OTHER REGULATORY INFORMATION

OSHA Status	: Slight irritant; possible sensitizer
TSCA Status	: All components are listed on TSCA inventory or otherwise comply with TSCA requirements

Other Classification:

DSCL (EEC) : R36 – Irritating to eyes. S2-Keep out of the reach of children. S46-If swallowed, seek medical advice immediately

HMIS (U.S.A):

Health hazard: 2

Fire hazard: 0

Reactivity: 0

Personal protection: E

National Fire Protection Association (U.S.A):

Health : 1

Flammability : 0

Reactivity : 0

Specific hazard

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16. OTHER INFORMATION

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