

Clearen, NSBC

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: March 11, 2019 SDS N.541-10-001US Version: 19-01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Clearen, NSBC

Identification of substance : Styrene-Butadiene Copolymer (SBC resin)

1.2. Relevant identified uses of the substance or mixture

Use of the substance/mixture : Food packaging, sleeve labels, toys, shoe soles.

1.3. Details of the supplier of the safety data sheet

Manufacturer 1:

Denka Company Limited

Nihonbashi Mitsui Tower, 2-1-1, Nihonbashi-Muromachi,

Chuo-Ku, Tokyo, 103-8338, Japan

PERFORMANCE PLASTICS DEPT. ELASTOMERS & PERFORMANCE PLASTICS

Phone: +81-3-5290-5553 Fax: +81-3-5290-5503 Email: dk010221@denka.co.jp

Manufacturer 2:

DENKA SINGAPORE PRIVATE LIMITED (DSPL)

The JTC Summit, 8 Jurong Town Hall Road, #07-01, Singapore 609434

Phone: +65-6224-1305 Fax: +65-6224-3840

Email: dk010221@denka.co.jp

Importer 1:

DENKA CHEMICALS GmbH

Kaiserswerther Straße 183, 4047 Düsseldorf, Germany

Phone: +49-(0)211-130990 Email: info@denkagermany.de

Importer 2:

DENKA CORPORATION

780 Third Avenue, 8th Floor New York, NY10017,U.S.A.

Phone: +1-212--688-8700 Fax: +1-212-688-8727 Email: <u>info@denka.us.com</u>

1.4. Emergency telephone number

Emergency number : +1-212-688-8700 (US EST 9-17)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture according to HCS2012

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

Revision date: March 11, 2019 Clearen, NSBC Page 1

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/information on ingredients

3.1. Classification of the substance or mixture

Substance

3.2. Information on ingredients

Chemical Name		Product identifier	%	CLP(GHS) classification
Styrene-Butadiene Copolymer		CAS# 9003-55-8	100%	Not classified

REACH Regulation / Registration Number for each substance

Substance	Registration number	Registration number
	(Denka Company Limited)	(DSPL)
Styrene	01-2119457861-32-0043	01-2119457861-32-0070
Butadiene	01-2119471988-16-XXXX	01-2119471988-16-0120

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Resin dust : Remove to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if breathing is affected. If breathing is difficult, supply oxygen.

Decomposition gas, generated from the molten resin of high temperature : Same as above.

Pellets,though rare case: Same as above.

First-aid measures after skin contact : Rinse with water/shower. If the condensate of the gas generated from the molten hot resin is adhered: Wash with plenty of water and soap. If the molten material adhered: Cool enough to put

a large amount of water on top of the clothing. If skin irritation occurs: Get medical

advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do so. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a doctor if you feel unwell.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry powder. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Product is not flammable, however if ignited will burn creating smoke of harmful carbon

monoxide, carbon dioxide, and nitrogen oxides.

Explosion hazard : Product is not explosive.

Reactivity : No data available.

5.3. Advice for firefighters

Firefighting instructions : Extinguish fire from upwind as much as possible. Move containers to a safe place if possible.

Evacuate area. Eliminate combustion source. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Use water and dry chemical for smaller fires. Use alcohol-resistant foam for

larger fires.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spills may be slippery. Wear appropriate protective equipment, and do not inhale dust, or gases

(at high temperature). Remove ignition sources.

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Revision date: March 11, 2019 Clearen, NSBC 2/6

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid. Avoid dust formation.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Dispose of material in compliance

with local, state, and federal regulations. Remove all ignition sources in area.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Avoid dust generation and accumulation to prevent possibility of dust explosion. When transferring by air, lower the transfer rate, and take measures to prevent ignition by static electricity (such as grounding). Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent resin decomposition gas. Do not breathe dust or gas. Keep away from sources of ignition and do not heat.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store away from heat sources, sources of ignition, high temperatures, humidity and direct

sunlight.

Packaging materials : Paper bag, synthetic fiber bag with resin coating, metal (steel or aluminum) cans.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dust (total)	
OSHA PEL (TWA) (mg/m³)	15 (mg/m³) (50 mppcf)

8.2. Exposure controls

Appropriate engineering controls : Dust : Enclosed equipment, Local exhaust.

Decomposition gas : Local ventilation.

Personal protective equipment : Dust/gas mask. Protective goggles. Gloves.







Hand protection : Wear protective gloves made of rubber or cloth. Wear heat resistant gloves when handling

molten resin.

Eye protection : In case of dust production: protective goggles.
Skin and body protection : Wear long sleeves and protective boots.

Respiratory protection : Dust respirator.

Organic gas mask for resin decomposition gas.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: SolidAppearance: PelletsColor: TransparentOdor: Odorless

Odor Threshold : No data available pH : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available

Flash point : Over 240 $^{\circ}$ C (Seta sealing up type) Auto-ignition temperature 444 $^{\circ}$ C (Representative value)

Self ignition temperature : No data available

Revision date: March 11, 2019 Clearen, NSBC 3/6

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Decomposition temperature : No data available Flammability (solid, gas) No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Density (solid) $960 - 1100 \text{ kg/m}^3$ Solubility Water: insoluable Log Pow : No data available Log Kow : No data available : No data available Viscosity, kinematic Viscosity, dynamic No data available

Explosive properties : Potential combustible dust hazard (fine dust)

Oxidizing properties : No data available Explosive limits : No data available Heat of combustion : $4.02 \times 10^7 \text{J/kg}$

9.2. Other information No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Overheating. Do not expose molten resin to the atmosphere.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO2). Nitrogen oxide. oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified [LD50(rat) >5,000mg/kg (form anologus materials)]

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Dust from this product may cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : Not irritating to skin.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating. Symptoms/injuries after ingestion : Ingestion may cause gastrointestinal irritation.

Chronic symptoms : No data available.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

Revision date: March 11, 2019 Clearen, NSBC 4/6

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Do not discharge to public wastewater systems without permit of pollution control authorities. No

discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations

Dispose of residues to licensed waste handling facility. Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

Dispose of contaminated containers in a safe manner in accordance with local/national

regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not applicable -Not Classified for transport

14.2. UN proper shipping name

Not applicable

Containers

14.3. Additional information

Other information

Before shipping confirm that there is no breakage, corrosion, or leakage of container. Load containers in a secure way. Avoid rough handling or moisture to prevent breakage of the packing bag. If the pellets are scattered by damage of the bag, beware that product spills may be slippery. Collect product spill as soon as possible. When transferring by air, lower the transfer rate and ground to prevent igntion by static electricity.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

CLEAREN, NSBC				
All components of this product are listed on the TSCA Inventory or are exempt				
SARA Section 311/312 Hazard Classes	Not applicable.			

15.2. International regulations

CLEAREN, NSBC	
TSCA (USA)	Listed
AICS (Australia)	Listed
DSL (Canada)	Listed
IECSC (China)	Listed
ENCS (Japan)	Listed
ISHL (Japan)	Listed
KECI (Korea)	Listed
NZIoC(New Zealand)	Listed
PICCS(Philippines)	Listed
CSNN (Taiwan)	Listed
EU	Registered (See section 3.2)

Revision date: March 11, 2019 Clearen, NSBC 5/6

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.3. US State regulations

California Proposition 65 WARNING: This product can expose you to chemicals, which is [are] known to the State of California to cause cancer

and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Name of the chemicals: 1,3-butadiene, styrene, ethylbenzene, isopropylbenzene, lithium carbonate

SECTION 16: Other information

Indication of changes : Revision 15-01 – 05/21/2015 - New SDS Created.

Revision 15-02 - 09/29/2015 - Company name change

Revision 18-01 - 06/20/2018 - California Proposition 65 WARNING added

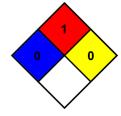
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 0
Flammability : 1
Physical : 0
Personal Protection :

This information is correct within the knowledge of the writer of the SDS. However, the contents of the information are not absolute and the exhaustiveness of information collection is incomplete. The contents refer to the materials and product, and the cases where the materials are combined with some other materials and processed have not been taken into consideration. Users shall assume the responsibility for the final decision to appropriately use the material and for adapting this information to the user's original handling in a manner to ensure complete and satisfactory utilization. All materials have unknown hazard, and they should be handled with sufficient care. Specific hazard is described in this SDS, which does not ensure the absence of different hazard. Be sure to conduct an advance test before actual use to confirm whether the materials conform to the purpose of use and to confirm the safety as well. The description of the SDS is subject to change without notice according to new knowledge.

Revision date: March 11, 2019 Clearen, NSBC 6/6