

Last revised date : 2021-12-16

PCN No. :

Safety Data Sheet(SDS)

1. Identification of the substance/mixture and of the company/undertaking

1) Product identifier : MRC380L3

2) Relevant identified uses of the substance or mixture and uses advised against

○ Relevant identified uses

29.Polymer preparations and compounds

○ Uses advised against

Prohibition of use other than the manufacture of plastic products

3) Supplier information

○ Company name [Manufacture]

Company : LGC 여수(화착)

Address : 116-8, Yeosusandan 2-ro, Yeosu-si, Jeollanam-do, Republic of Korea/ 55, Yeosusandan 2-ro, Yeosu-si, Jeollanam-do, Republic of Korea

Emergency number : 82-42-719-3684

2. HAZARD IDENTIFICATION

1) Hazard classification

Not applicable

2) Allocation label elements

Hazard pictograms

Signal word

- NONE

Hazard statements

No data available

Precautionary statements

Not applicable

3) Other hazards

○ Product NFPA Level

Health	Flamm ability	Reactivity
0	0	0

(※ 0 = Insufficient , 1 = Slightly , 2 = ordinary , 3 = Highness , 4 = Very high)

3. Composition/Information on ingredients

Components	EU REACH No.	CAS No.	PCT(wt%)
ABS resin		9003-56-9	90 ~ 100
N,N'-ethylenedi(stearamide)		110-30-5	1 ~ 5

4. FIRST AID MEASURES

1) Following eye contact

- In case of contact with material, immediately flush eyes with running water for at least 15 minutes.

2) Following skin contact

No data available

3) Following inhalation

No data available

4) Following ingestion

- Get medical aid immediately.

5) Advice to physician

No data available

5. FIRE FIGHTING MEASURES

1) Suitable (and unsuitable) extinguishing media

○ Suitable extinguishing media

- Small fire: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2 (Suitable extinguishing media).

- Unsuitable extinguishing media
 - High-pressure water (Unsuitable extinguishing media).
- 2) Special hazards arising from the substance or mixture
 - Pyrolytic product
 - Specific hazards arising from the chemical : Carbon oxides
 - Risk of fire and explosion
 - Some may burn but none ignite readily.
 - Other
 - No data available
- 3) Special protective equipment for firefighters
 - No data available

6. ACCIDENTAL RELEASE MEASURES

- 1) Health considerations and protective equipment
 - ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
 - Wear suitable personal protective equipment
- 2) Environmental precautions
 - No data available
- 3) For cleaning up
 - No data available

7. HANDLING AND STORAGE

- 1) Precautions for safe handling
 - Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)
 - Caution: Dangerous fire hazard when exposed to heat, or flame, sparks.
- 2) Conditions for safe storage (including any incompatibilities)
 - Store in a cool/low-temperature, well-ventilated {dry} place {away from heat and ignition sources}

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 1) Chemical exposure limits, Biological exposure standard

Components	Occupational exposure limits	ACGIH	Biological standard
ABS resin	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable
N,N'-ethylenedi(stearamide)	TWA : Not applicable STEL : Not applicable	TWA : Not applicable STEL : Not applicable	Not applicable

2) Appropriate engineering controls

- Not applicable

3) Personal protection equipment

- Respiratory protection
 - If high frequency of use or exposure, wear air respirator.
 - Wear breathing protection, which needs a confirmation from the Korea Occupational Safety and Health Agency.
- Eye protection
 - Wear suitable protective goggles and face shields.
- Hand protection
 - Wear suitable protective gloves.
- Body protection
 - Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pellet
Physical state	Solid
Colour	No data available
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability(solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Solubility(ies)	No data available
Vapour density	No data available
Relative density	No data available
n-octanol/water partition coefficient	No data available
Auto ignition temperature	No data available

Decomposition temperature	No data available
Viscosity	No data available
Molecular weight(mass)	No data available

10. STABILITY AND REACTIVITY

- 1) Stability and hazardous reactivity
 - May cause toxic effects if inhaled.
 - Fire may produce irritating and/or toxic gases.
 - Some may burn but none ignite readily.
- 2) Conditions to avoid
 - Ignition source(heat, spark, flame, etc.).
- 3) Incompatible materials
 - No data available
- 4) Hazardous decomposition products
 - No data available

11. TOXICOLOGICAL INFORMATION

- 1) Exposure route information
 - Inhalation
 - Can be absorbed in body by inhalation.
 - Skin Contact
 - Following skin contact: No data
 - Eye Contact
 - After eye contact: No data
 - Ingestion
 - Ingestion by mouth: No data available
- 2) Health hazard information
 - Acute toxicity
 - Acute toxicity(Oral) PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : LD50> 5000 mg / kg, Source: IUCLID
 - Acute toxicity(Dermal) PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : LD50> 2000 mg / kg, Source: IUCLID

- Acute toxicity(Inhalation:Gases) PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Acute toxicity(Inhalation:Vapours) PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Acute toxicity(Inhalation:Dust/mist) PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Skin corrosion/irritation PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Serious eye damage/eye irritation PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Respiratory sensitization PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Skin sensitization PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Carcinogenicity PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Germ cell mutagenicity PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : In vitro / audio, Source: IUCLID
- Reproductive toxicity PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Specific target organ toxicity single exposure PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Specific target organ toxicity repeated exposure PRODUCT : Not classified
 - ABS resin : No data available

- N,N'-ethylenedi(stearamide) : No data available
- Aspiration hazard PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available

12. ECOLOGICAL INFORMATION

1) Aquatic toxicity

- Fish>PRODUCT : Not classified
 - ABS resin : LC50 11.5 mg / ℓ 96 hr Pimephales promelas, Source: ECOTOX
 - N,N'-ethylenedi(stearamide) : No data available
- Crustacea>PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Aquatic algae>PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available

2) Persistence and degradation

- n-octanol water partition coefficient>PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : 13.98 log Kow (@ 25 °C), Source: ECHA
- Degradation>PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : No data available
- Biodegradation>PRODUCT : Not classified
 - ABS resin : No data available
 - N,N'-ethylenedi(stearamide) : 15 (%) 28 day (), Source: IUCLID

3) Bioaccumulative potential>PRODUCT : Not classified

- ABS resin : No data available
- N,N'-ethylenedi(stearamide) : No data available

4) Mobility in soil>PRODUCT : Not classified

- ABS resin : No data available
- N,N'-ethylenedi(stearamide) : No data available

5) Other adverse effects>PRODUCT : Not classified

- ABS resin : No data available
- N,N'-ethylenedi(stearamide) : No data available

13. DISPOSAL CONSIDERATIONS

1) Disposal methods

- Every commercial waste producer shall either treat wastes generated from his/her place of business by him/herself or commission the treatment of such wastes to a person who has license for a waste treatment business under Article 26(3), a person who recycles of such wastes under Article 44(2), a person who has installed and operates a waste disposal facility under Article 4 or 5, a person who has completed the registration of a business of discharging wastes into the sea under Article 18 of the Marine Environment Management Act.

2) Precautions (including disposal of contaminated container of package)

- Do not allow spill material to enter sewers, storm water drains, soil, etc.
- Wear an appropriate Personal protection. (See Exposure Controls/Personal Protection section.)

14. TRANSPORT INFORMATION

1) UN No. : Not applicable

2) Proper shipping name : Not applicable

3) Class or division : Not applicable

4) Packing group : Not applicable

5) Marine pollutant : Not applicable

6) Special safety response for transportation or transportation measure :

Emergency measures in case of fire : Not applicable

Emergency measures in the effluent : Not applicable

- ADR

· Tunnel restriction code : Not applicable

- IMDG

· Marine pollutant : Not applicable

- Air transport(IATA)

· UN No. : Not applicable

· Proper shipping name : Not applicable

· Class or division : Not applicable

· Packing group : Not applicable

15. REGULATORY INFORMATION

- Global Inventory - EU. European Inventory of Existing Commercial Chemical Substances (EINECS)

- N,N'-ethylenedi(stearamide)

- Other regulations - EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances (L286, Vol. 52, 31 Octobe

Not applicable

- Other regulations - EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17, 24 November 2010

Not applicable

- Other regulations - EU. Regulation No 850/2004 prohibiting and restricting persistant organic pollutants (POPs), as last amended by Regulation No 51

Not applicable

- Other regulations - EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances (Reg 1907/2006

Not applicable

- Other regulations - EU. GHS Classification. CLP Reg. No 1272/2008 of 16 Dec 2008, Annex VI, Table 3.1, List of harmonized classification & labelling

Not applicable

- Other regulations - EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances (L286, Vol. 52, 31 October 2009

Not applicable

- Other regulations - EU. REACH, Annex XIV, Substances Subject to Authorization, as amended through Regulation No 895/2014 of 19 August 2014

Not applicable

- Other regulations - EU. Directive 2012/18/EU on major accident hazards involving dangerous substances, Annex I, OJ (L 197)1, 24 July 2012

Not applicable

- Other regulations - EU. Regulation EU No. 649/2012, Annex V, Chemicals and articles subject to export ban, OJ L 201, p. 60, 27 July 2012

Not applicable

- Other regulations - EU. Annexes I, II (F-gases subject to emission limits/reporting), IV (GWPs for mixture calculations), Reg. 517/2014/EU on fluori

Not applicable

16. OTHER INFORMATION

1) Reference

- CERl
- Directivw 87/302/EEC, GLP . IUCLID

- ECHA
- ECHA registration materials
- ECOTOX
- EU CLP
- EU IUCLID
- IUCLID
- NCIS existing chemical safety testing
- OECD SIDS
- OECD SIDS, EU IUCLID
- OECD TG 301 C . OECD SIDS
- OECD TG404, OECD SIDS
- OECD TG423, Ministry of existing chemical safety testing (2001-2004)

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4) Other