



Material Safety Data Sheet

1. Identification

(1) Product Name	MB2091
(2) Use	Masterbatch
(3) Information of manufacturer	
Company	MUIL CHEMICAL CO.,LTD
Address	237, Yeosusandan-ro, Yeosu-si, Jeollanam-do, 555-290 Rep, of Korea
Emergency Telephone No	+82-61-690-9411

2. Hazardous Identification

(1) Classification	None
(2) Label element, including precautionary statements	
Symbols	None
Signal word(s)	None
Hazard statement(s)	None
Precautionary statement(s):	
Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash ... thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required.
Response	P314 Get medical advice/attention if you feel unwell.
Storage	P407 Maintain air gap between stacks/pallets.
Disposal	P501 Dispose of contents/container to ...
(3) Other hazards which do not result in classification(NFPA)	
Health	1
Flammability	1
Reactivity	0

3. Composition/Information on Ingredients

Chemical Name	Common name,synonym	CAS number	Contents(%)
Carbon Black	Furnace black	1333-86-4	45
Polyethylene	LLDPE	9002-88-4	52
Ethylene bis(stearic amide)	EBS	110-30-5	3

4. First Aid Measures

(1) Eye contact	Flush eyes thoroughly with water for 15 minutes at least. If effects occur, consult a physician.
(2) Skin contact	If the molten material gets on skin, quickly cool in water. Seek immediate medical attention. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.
(3) Ingestion	If swallowed, seek medical attention.
(4) Eye Contact	Rinse immediately with plenty of water and seek medical advice.

5. Fire - Fighting Measures

(1) Suitable extinguishing media	Water. Water mist. Dry chemical. Carbon dioxide (CO ₂). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material.
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The application of high velocity water will spread the burning surface layer.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

(2) Specific hazards arising from the chemical

During a fire, smoke contain the original material in addition to combustion products of varying composition which may be toxic or irritation.

(3) Special protective equipment for fire-fighters

Wear fire fighting clothing (helmet, coat, trousers, boots, and gloves).

Keep people way.

Cool surroundings with water to localize fire zone.

Hand held dry chemical or CO₂ extinguishers may be used for small fires.

6. Accidental Release Measures

(1) Personal precautions, protective equipment and emergency procedures

Isolate the hazard area.

Use appropriate safety equipment.

Spilled material may cause a slipping hazard.

(2) Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Contain spilled material if possible.

Sweep up.

Collect in suitable containers.

(3) Methods for cleaning up

Contain spilled material if possible.

Sweep up.

Collect in suitable containers.

7. Handling and Storage

(1) Precautions for safe handling

Good housekeeping and controlling of dusts are necessary for safe handling of product.

Dust can be ignited by static discharge.

Spilled pellets and powders may create a slipping hazard.

(2) Conditions for safe storage

Keep in a dry place.

Keep in a well-ventilated place.

Do not store together with oxidizing and self-igniting products.

8. Exposure Controls / Personal Protection

(1) Exposure limits in the air of the workplace, biological limit values

Not applicable

(2) Appropriate engineering controls:

Good general ventilation should be adopted.

Local exhaust ventilation may be necessary for some operations.

(3) Personal protective equipment

Respiratory protection

No respiratory protection is normally required.

If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator.

Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Dust safety masks are recommended when the dust concentration is excessive.

Eye protection

Use of safety glasses with side shields for solid handling is good industrial practice.

If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield.

Hand protection

If there is potential for dust, use chemical goggles.

If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product.

Body protection

No precautions other than clean body-covering clothing should be needed.



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9. Physical And Chemical Properties

(1) Appearance	
Form	Pellet
Color	Black.
(2) Odor	Almost Odorless
(3) Odor threshold	Not Applicable
(4) pH	Not Applicable
(5) Melting point range	90 ~ 125 °C,
(6) Initial boiling point and boiling range	Not Applicable
(7) Flash point	Not Applicable
(8) Evaporation rate	Not Applicable
(9) Flammability (solid, gas)	Not applicable
(10) Upper/lower flammability or explosive limits	Not Applicable
(11) Vapour pressure	
(12) Solubility	No data available
(13) Specific gravity	0.950 ~ 1.250
(14) Partition coefficient: n-octanol/water	Not Applicable
(15) Decomposition temperature	Not Applicable

10. Stability and Reactivity

(1) Chemical stability/Possibility of hazardous reactivity	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
(2) Conditions to avoid	Avoid prolonged storage at elevated temperature.
(3) Incompatible materials	Avoid contact with strong oxidizing agents.
(4) Hazardous decomposition products	Not applicable

11. Toxicological Information

Acute oral toxicity	Presumed not toxic
Acute inhalation toxicity	Dust inhalation May cause cough.
Acute dermal toxicity	Presumed not toxic
Skin irritation	No skin irritation
Eye irritation	No eye irritation
Sensitization	No data available

12. Ecological Information

(1) Ecotoxicity effects	No data available
(2) Persistence and degradability	No data available
(3) Bioaccumulative potential	No data available
(4) Mobility in soil	No data available
(5) Other adverse effects	No data available

13. Disposal Considerations

Disposal	All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.
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14. Transport Information

USDOT	Not classified as hazardous under transport regulations.
IMO / IMDG	Not classified as hazardous under transport regulations.
IATA	Not classified as hazardous under transport regulations.
ADR	Not classified as hazardous under transport regulations.
RID	Not classified as hazardous under transport regulations.

15. Regulatory Information

National Regulations	All components of this product are listed in ECL in Korea.
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OSHA	Not applicable
CERCLA	Not applicable
EPCRA 302	Not applicable
EPCRA 304	Not applicable
EPCRA 313	Not applicable
EU	
EC Classification	Not applicable

16. Other Information

(1) References and sources for data

Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)
ECB-ESIS(European chemical Substances Information System)(<http://ecb.jrc.it/esis>)
ECOTOX Database, EPA(<http://cfpub.epa.gov/ecotox>)
IUCLID Chemical Data Sheet, EC-ECB
International Chemical Safety Cards(ICSC)(<http://www.nihs.go.jp/ICSC>)
TOXNET, U.S. National Library of Medicine(<http://toxnet.nlm.nih.gov>)
The Chemical Database, The Department of Chemistry at the University of Akron(<http://ull.chemistry.uakron.edu/erd>)
<http://hazmat.nema.go.kr>
<http://ncis.nier.go.kr>

Henkel
ECOSAR
ECOSAR
Korea Occupational Safety and Health Agency

(2) Originated date February 28 , 2012

(3) Revision number and date

Revision number	4
Final revision date	January 21, 2016

The information in this MSDS pertains only to the product as shipped.
The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.
The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.