

SAFETY DATA SHEET

Section 1: Identification

Product identifier used on the label;

Product name: LIMEX Pellet BLF PE78-02M

Other means of identification;

No information

Recommended use of the chemical and restrictions on use;

Recommended use: General industrial uses

Restrictions on use: No information

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party;

Name: TBM Co., Ltd.

Department in Charge: R&D and Manufacturing Division

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Section 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Physical Hazards

Not classified

Health Hazards

Not classified

Environmental Hazards

Not classified

Other Hazards

No information

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200;

Not applicable

Description of any hazards not otherwise classified;

Not applicable

Ingredient with unknown acute toxicity in the mixture

Not applicable

Section 3: Composition/information on ingredients

Compositions (contents of the product)

| Chemical name | CAS No. | MITI No. | Concentration ranges (wt %) |
|--|---------------|---------------|-----------------------------|
| Calcium Carbonate | 471-34-1 | 1-122 | 73-83 |
| Polyethylene | 9002-88-4 | 6-1 | 15-25 |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | 9-1692 | 0-5 |
| Additives | Nondisclosure | Nondisclosure | 0-5 |

Section 4: First-aid measures

Necessary first-aid measures by relevant routes of exposure;

| | |
|--------------|---|
| IF INHALED | If inhaled large amount of gas generated from molten resin, remove victim to fresh air. If experiencing respiratory symptoms, get medical attention immediately. |
| IF ON SKIN | If molten resin attaches on skin, cool adequately by flushing plenty of water. If skin irritation, rash or skin burn occurs, get medical attention. |
| IF IN EYES | Immediately rinse cautiously with water for 15 - 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms continue, call a doctor/physician. |
| IF SWALLOWED | Induce vomiting by giving plenty of water. If symptoms continue, call a doctor/physician. |

Most important symptoms/effects, acute and delayed;

No information

Indication of immediate medical attention and special treatment needed, if necessary;

No information

Section 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media;

Suitable extinguishing media:

Use water mist, dry chemical powder

Unsuitable extinguishing media

Applying direct water may be dangerous because fire may expand to surroundings.

Specific hazards arising from the chemical;

No information

Special protective equipment and precautions for fire-fighters;

Cut off any ignition sources and extinguish with an appropriate agent.
Cool the surrounding tank and the buildings with direct water jet to avoid risk of fire spreading.
Take action from windward.
Keep out except responsible personnel.
Move container to a safe area if it can be done without risk.
Fire fighters should wear appropriate personal protective equipment (respiratory protective equipment) or fireproof clothing.

Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures;

Keep out except responsible personnel.
Wear suitable protective equipment described in Section 8: Exposure controls/personal protection.
Avoid contact with eyes or skin and to inhale.

Environmental precautions;

Avoid release into the environment because product may cause local effects.

Methods and materials for containment and cleaning up;

Sweep up scattered materials or vacuum them using a vacuum cleaner so as not to cause dust then collecting them into an empty container.
Do not eat or drink near handling and storage locations.
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Prevent to flowing into drains, sewers, basements or closed areas.

Section 7: Handling and storage

Precautions for safe handling

Protective measures:

Install appropriate equipment and wear suitable protective apparatus described in Section 8: Exposure controls/personal protection.
Be careful of burn when heat this material.
Avoid the generation of dust.

Advice on general occupational hygiene:

Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures:

In the storage area, install adequate light and ventilation systems to handle hazardous materials.

Incompatible materials:

Acids

Conditions for safe storage:

Avoid heat, direct sunlight and high humidity. Store at room temperature.
Do not pile this product too much.

Packing material:

Store in original packaging form.

Section 8: Exposure controls/personal protection

Occupational Exposure Limits;

| | |
|--|---|
| The Japan Society for Occupational Health (2017) | Class 3(Calcium Carbonate); 2 mg/m ³ (Respirable dust) 8 mg/m ³ (Total dust) |
| ACGIH TLV-TWA (2017) | 3 mg/m ³ (Respirable particles) 10 mg/m ³ (Inharable particles) |

Appropriate engineering controls;

In a work place where dusts generate, ensure to use sealed instrument or local ventilation.

Individual protection measures, such as personal protective equipment;

| | |
|--------------------------|--|
| Respiratory protection | In case of dust generation, wear appropriate protective mask or air aspirator as required. |
| Hand protection | If hand contact is possible, wear protective gloves. |
| Eye protection | Wear safety glasses or goggles if in eyes. |
| Skin and body protection | Wear protective clothing and apron if necessary. |

Section 9: Physical and chemical properties

| | |
|--|--------------------|
| Appearance (physical state, color, etc.) | White Pellet |
| Odor | Odourless |
| Odor threshold | No information |
| pH | No information |
| Melting point/freezing point | No information |
| Initial boiling point and boiling range | No information |
| Flash point | No information |
| Evaporation rate | No information |
| Flammability (solid, gas) | Flammable |
| Upper/lower flammability or explosive limits | No information |
| Vapor pressure | No information |
| Vapor density | No information |
| Relative density (g/cm ³) | 1.8-2.0 |
| Solubility (ies) | Insoluble in water |
| Partition coefficient: <i>n</i> -octanol/water | No information |
| Auto-ignition temperature | No information |
| Decomposition temperature | No information |
| Viscosity | No information |

Other information

No information

Section 10: Stability and reactivity

Reactivity

Stable under normal handling condition.

Chemical stability

Stable under normal handling condition.

Possibility of hazardous reactions

When a product is burned, or when a product is produced in molding at high temperature (300°C and above), decomposition may occur.

Conditions to avoid

Avoid heat, sunlight or high humidity.

Incompatible materials

Acids

Hazardous decomposition products

In case of fire, toxic decomposition products (carbon dioxide) may be generated.

Section 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics;

Information on product:

Serious eye damage/irritation: This material and dust may physically irritate eyes or cornea.

Information on ingredients:

No Information

Delayed and immediate effects and also chronic effects from short- and long-term exposure;

No Information

Numerical measures of toxicity (such as acute toxicity estimates);

Not applicable

Whether the chemical is listed in the NTP Report on Carcinogens or has been found to be a potential carcinogen in the IARC Monographs, or by OSHA;

IARC: Not listed

NTP Report: Not listed

OSHA: Not listed

Section 12: Ecological information

Ecotoxicity:

Information on product: No information

Information on ingredients: No information

Persistence and degradability:

Information on product: No information

Information on ingredients: No information

Bioaccumulative potential:

Information on product: No information

Information on ingredients: No information

Mobility in soil:

Information on product: No information

Information on ingredients: No information

Other adverse effects:

No information

Section 13: Disposal considerations

Waste treatment methods

Dispose of waste in accordance with applicable local, regional and international regulations and standards.

When disposing, consult to a certificated waste trader or local offices if they deal with the waste.

Used container should be disposed of in compliance with related laws and local regulations.

Contents should be removed completely when dispose of empty containers.

Section 14: Transport information

LAND (ADR/RID) Not regulated for land transport

SEA (IMO) Not regulated for sea transport according to IMDG-code

AIR (IATA/ICAO) Not regulated for air transport

Transport in bulk according to Annex II of MARPOL 73/78 and IBC code

Not applicable

Special precautions for user

When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping off or damaging. Take preventive measures of collapse.

Section 15: Regulatory information

TSCA inventory: listed

| | |
|-------------------------|--|
| TSCA SNUR: | Not listed |
| SARA Title III: | Not listed |
| Clean Air Act: | This product does not contain any substances regulated as hazardous air pollutants under Section 112 of the Clean Air Act. |
| Clean Water Act: | This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act. |

Section 16: Other information, including date of preparation or last revision

Update history:

| | |
|----------------|-------------|
| Date of issue: | 8-Jul-2020 |
| Last updated | 07-Sep-2021 |

References:

NITE GHS classification results (<http://www.safe.nite.go.jp/ghs/list.html>). (2017)
ACGIH, American Conference of Governmental Industrial Hygienists (2016) TLVs and BEIs.

[Disclaimer]

This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.