Safety Information

- This product is not a dangerous product according to the applicable United Nations rules;
- The Safety Information is provided as a service to our customers and there is no legal obligation in the European Union to provide it in your national language and in the format of the Regulation (EC) 1907/2006 (consolidated);
- This safety information provides hazard information according to 29 CFR 1910.1200(a)(2);

1. Product and company identification

Product name: Trehalose dihydrate

DFE Pharma Brand names: BioHale®

Cas Number: 6138-23-4

Identified uses; Excipient used in the manufacturing of pharmaceutical products

Manufacturer/supplier identification: See Footer

2. Hazards Identification

No hazardous product as specified in the current EU legislation and in UN-rules.

GHS-US classification; combustible dust.

Warning! May form combustible dust concentrations in air (during processing)

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3. Composition/information on ingredients

Product contains 100% trehalose as dihydrate

EINECS/ELINCS No.: 612-140-5
CAS No.: 6138-23-4
RTECS No.: LZ5776547

Formula: $C_{12}H_{22}O_{11}.2H_2O$
Molecular weight: 378.3

4. First aid measures

After inhalation: fresh air
After skin contact: wash off with plenty of water.
After eye contact: rinse out with water.
After swallowing (large amounts): get medical attention.

5. Fire-fighting measures

Explosion; Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source (e.g. static electricity) is a potential dust explosion hazard

This product is flammable. Suitable extinguishing media: water, powder, spray foam, CO_2
In adaptation to materials stored in the immediate neighbourhood.

6. Accidental Release measures

Generated dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Avoid dispersal of dust in the air (i.e. clearing dust surfaces with compressed air)

Non-sparking tools should be used

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7. Handling and storage

For safety reasons, store in tightly closed packing protected from solvents.

Minimize dust generation and accumulation during manipulation.

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

8. Exposure controls/personal protection

Respiratory protection required when dusts are generated.
Eye protection is required.
The use of hand protection is recommended.
Wash hands after working with substance.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Use only appropriately classified electrical equipment and powered industrial trucks

9. Physical and chemical properties

For chemical and physico-chemical data see the Certificate of Standards (COS)

10. Stability and reactivity

Like any other powdered product, there is a risk of explosion in a confined cloud (combustible dust formation)

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11. Toxicological information

No toxic effects are to be expected when the product is handled appropriately

12. Ecological information

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Products and Packaging

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in
charge or approved waste disposal companies which will advise you on how to dispose of special waste.

14. Transport information

Not subject to limitations due to transport regulations.

15. Regulatory information

Labeling according to applicable local legislation; Keep away from sources of ignition – No smoking

16. Other information

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Please refer to;

NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, for safe handling of generated dusts

OSHA information on combustible dusts;
https://www.osha.gov/pls/publications/publication.athruz?pType=Industry&pID=250

ATEX **Directive 2014/34/EU**

The information given in this document is based on our current knowledge and experience, however without any obligation and without any assumption of liability on our part. The information may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. You must comply with all applicable laws, rules and regulations and observe all third party rights.

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