according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : Fruitflow® II SD

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Ingredient/additive for dietary supplements

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : DSM Nutritional Products Europe Ltd

PO Box 2676 CH-4002 Basel

Telephone : +41618157777
Telefax : +41618157770

E-mail address of person : sds.nutritionalproducts@dsm.com

responsible for the SDS

1.4 Emergency telephone number

+41 848 00 11 77 (Carechem 24 International)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

Risk of dust explosion.

SECTION 3: Composition/information on ingredients

Synonyms : water soluble tomato concentrate

Brief description of the prod- : Mixture

uct Processed natural product

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous components

Remarks : No hazardous ingredients

SECTION 4: First aid measures

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4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

> Remove contact lenses. Protect unharmed eve.

Keep eye wide open while rinsing.

If swallowed : Rinse mouth with water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

: No specific symptoms known. **Symptoms**

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

Foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: None known.

5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

for firefighters

Further information Consider dust explosion hazard.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Personal precautions

Avoid dust formation.

6.2 Environmental precautions

Environmental precautions Try to prevent the material from entering drains or water

courses.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Sweep up and shovel.

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6.4 Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

Advice on protection against

fire and explosion

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Take precautionary measures

against static discharges.

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Keep container tightly closed and dry.

To maintain product quality, do not store in heat or direct sun-

light.

Advice on common storage : No special restrictions on storage with other products.

7.3 Specific end use(s)

Specific use(s) : Not applicable

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

: Glove material: for example nitrile rubber

Skin and body protection : Lightweight protective clothing

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

In case of high dust concentration use a dust mask applicable

to local conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : free flowing powder
Colour : brown - dark brown

Odour : characteristic

Odour Threshold : No information available.

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pН : No data available Melting point/range Not applicable Boiling point/boiling range : Not applicable

Flash point Not applicable

Flammability (solid, gas) May form combustible dust concentrations in air.

Vapour pressure Not applicable Relative vapour density Not applicable not determined Density

Water solubility soluble

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature : No data available

Thermal decomposition : Decomposes on heating.

Potential for exothermic hazard

Explosive properties : Not explosive Oxidizing properties No data available

9.2 Other information

Combustibility index for de-

posited dust

: 3 (23 °C)

: 3 (100 °C)

: KSt value: 192 bar·m/s (Milled sample, Median value of the Dust explosion properties

tested sample 0.038 mm, Loss on drying 4.1 %; ISO 6184)

Dust explosion class : St1 (Milled sample, Median value of the tested sample 0.038

mm, Loss on drying 4.1 %; ISO 6184)

Maximum explosion over-

pressure

8.1 bar (Milled sample, Median value of the tested sample

0.038 mm, Loss on drying 4.1 %; ISO 6184)

Minimum ignition energy : 3 - 10 mJ (Milled sample, Median value of the tested sample

0.038 mm, Loss on drying 4.1 %, EN 13821)

The Minimum ignition energy (MIE) of a dust/air mix depends on the particle size the water content and the temperature of the dust. The finer and the dryer the dust the lower the MIE.

General remark: The indicated dust explosion characteristics are only valid for this product and are sensitive to the sample's

parameters.

Powder volume resistivity : ca. 2E+12 Ohmm (Product sample, Median value of the test-

ed sample 0.099 mm, Loss on drying 4.1 %)

The material can accumulate static charge and can therefore

cause electrical ignition.

Minimum ignition tempera-

ture of a dust/air mix

: 410 °C (Median value of the tested sample 0.099 mm) deter-

mined in the BAM oven

Particle size <= 85 % < 0.15 mm 300 - 600 kg/m3 Bulk density

SECTION 10: Stability and reactivity

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10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Strong acids and strong bases Strong oxidizing agents

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

(Calculation method)

Skin irritation : No skin irritation

Eye irritation : Dust contact with the eyes can lead to mechanical irritation.

Sensitisation : No data available

Genotoxicity in vitro : No data available

Carcinogenicity : No indication for carcinogenicity known.

Reproductive toxicity : No indication for adverse effects on fertility known.

STOT - single exposure (A-

cute exposure)

: The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure : This information is not available.

Further information : The product contains no substances which at their given con-

centration, are considered to be hazardous to health.

Aspiration toxicity : No aspiration toxicity classification

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SECTION 12: Ecological information

12.1 Toxicity

No data is available on the product itself.

12.2 Persistence and degradability

Biodegradability : Expected to be biodegradable

12.3 Bioaccumulative potential

: No data available Bioaccumulation

Partition coefficient: n-

octanol/water

: Not applicable

12.4 Mobility in soil

Distribution among environ-

mental compartments

: No data available

12.5 Results of PBT and vPvB assessment

Assessment : This substance/mixture contains no components considered to

> be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or

higher.

12.6 Other adverse effects

tion

Additional ecological informa: There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

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Empty containers should be taken to an approved waste han-Contaminated packaging

dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

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14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regu-

lations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

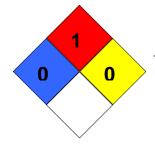
Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

NFPA Classification : Health hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative

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and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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.

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