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SECTION 1. IDENTIFICATION

Product name HY-D WS

Manufacturer or supplier's details

Company name of supplier **DSM Nutritional Products**

Address 45 Waterview Blvd

Parsippany NJ 07054-1298

(908) 475-7373 Telephone Telefax (908) 475-7406

Emergency telephone num-

ber

1-800-424-9300 (24 HR CHEMTREC, CA & US); Outside CA

& US +1-703-572-3887 (COLLECT CALLS ACCEPTED)

E-mail address of person

responsible for the SDS

: sds.nutritionalproducts@dsm.com

Recommended use of the chemical and restrictions on use

Recommended use : Premix for Animal Feeds

SECTION 2. HAZARDS IDENTIFICATION

Other hazards

Risk of dust explosion.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Brief description of the prod- : Mixture

uct

Hazardous components

Component	CAS-No.	Weight percent
citric acid	77-92-9	90 - 100

SECTION 4. FIRST AID MEASURES

General advice Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled Move to fresh air.

Consult a physician after significant exposure.

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

Wash off with soap and plenty of water. If symptoms persist, call a physician.

Immediately flush eye(s) with plenty of water. In case of eye contact

> Remove contact lenses. Protect unharmed eve.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Clean mouth with water and drink afterwards plenty of water.



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Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

No specific symptoms known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water

Foam

Specific hazards during fire-

fighting

None known.

Further information : Consider dust explosion hazard.

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Avoid dust formation. Avoid breathing dust.

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

courses.

Methods and materials for

containment and cleaning up

Pick up and arrange disposal without creating dust.

SECTION 7. HANDLING AND STORAGE

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.

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Conditions for safe storage : Keep container tightly closed and dry.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.



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Personal protective equipment

Respiratory protection In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

Material for example nitrile rubber

Remarks Glove material: for example nitrile rubber

> Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate

type of protective gloves.

Eye protection Safety glasses with side-shields

Skin and body protection Choose body protection according to the amount and con-

centration of the dangerous substance at the work place.

Hygiene measures Handle in accordance with good industrial hygiene and safety

practice.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance powder

Odour No information available. Odour Threshold No information available.

No data available Melting point/range not determined Boiling point/boiling range : not determined 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 not determined Partition coefficient: n-: Not applicable

octanol/water

Auto-ignition temperature No data available Thermal decomposition : No data available Explosive properties No data available Oxidizing properties : No data available

Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity No hazards to be specially mentioned.

SAFETY DATA SHEET

Chemical stability



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tions

Dust may form explosive mixture in air.

Stable under recommended storage conditions.

Conditions to avoid Heat

Incompatible materials Strong acids and strong bases

Strong oxidizing agents

Hazardous decomposition

Possibility of hazardous reac-

products

No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

citric acid : LD50 (Rat): 3,000 mg/kg

Skin irritation : May cause skin irritation and/or dermatitis.

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

Further information : May cause irritation of respiratory tract.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

No data is available on the product itself.

Persistence and degradability

No data is available on the product itself.

Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: n-

octanol/water

: Not applicable

Mobility in soil

Distribution among environ-

mental compartments

: No data available

Results of PBT and vPvB assessment

Assessment : Not applicable

Other adverse effects

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

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : User must determine if any wastes generated exhibit hazard-

ous characteristics as per 40 CFR Part 261 or other national /

local legislation.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

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

posal company.

Contaminated packaging : Dispose of as unused product.

Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations

TDG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

Canadian PBT Chemicals This product does not contain any components on the DSL

that are classified as Persistent, Bioaccumulative and Toxic

(PBT) under CEPA.

The components of this product are reported in the following inventories:

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

: Maltodextrin

: calcifediol hydrate

TSCA list

Not relevant

Not relevant



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SECTION 16. OTHER INFORMATION

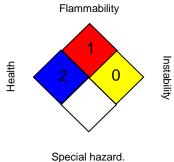
Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances: ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

ACGIH = American Conference of Governmental Industrial Hygienists. CFR = Code of Federal Regulations, EPA = Environmental Protection Agency, NIOSH = National Institute of Occupational Safety and Health. OSHA = Occupational Safety and Health Administration. STEL = Short term exposure limit. TLV = Threshold Limit Value. TWA = Time Weighted Average.

Further information

NFPA:





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