

## SAFETY DATA SHEET



## Rovimix® Hy-D® Solution

5003016

Version 1.1

Revision Date 04/01/2015

Print Date 03/04/2016

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Rovimix® Hy-D® Solution

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

Use of the Substance/Mixture : Additive for animal nutrition to be used in feed

## 1.3 Details of the supplier of the safety data sheet

Company : DSM Nutritional Products  
 45 Waterview Blvd  
 US-07054-1298 Parsippany

Telephone : (908) 475-7373  
 Telefax : (908) 475-7406  
 E-mail address Responsible/issuing person : sds.nutritionalproducts@dsm.com

## 1.4 Emergency telephone number

1-800-424-9300 (24 HR CHEMTREC, CA & US); Outside CA & US +1-703-741-5970  
 (COLLECT CALLS ACCEPTED)

## SECTION 2. HAZARDS IDENTIFICATION

## Emergency Overview

Appearance	emulsion
Colour	white, milky
Odour	No information available.

## GHS Classification

Not a hazardous substance or mixture.

## GHS Label element

Not a hazardous substance or mixture.

## Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No specific symptoms known.

## Carcinogenicity:

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Additional hazards and advice**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Brief description of the product

: Mixture (preparation) containing active ingredient and auxiliary substances  
aqueous dispersion

**Hazardous components**

Component	CAS-No.	Weight percent
polyoxyethylene sorbitan monostearate	9005-67-8	1 - 5

**Further ingredients**

Component	CAS-No.	Weight percent
calcifediol hydrate (25-hydroxyvitamin D3)	63283-36-3	0 - 0.1

**SECTION 4. 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 eye.  
Keep eye wide open while rinsing.
- If swallowed** : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed** : No specific symptoms known.
- Notes to physician** : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES****Flammable properties**

Flash point : > 212 °F (> 100 °C)

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Ignition temperature : not determined

Lower explosion limit : not determined

Upper explosion limit : not determined

**Fire fighting**

Suitable extinguishing media : Alcohol-resistant foam  
 Dry chemical  
 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Standard procedure for chemical fires.

**Protective equipment and precautions for firefighters**

Specific hazards during fire-fighting : None known.

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

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

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

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.**SECTION 7. HANDLING AND STORAGE**

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

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge.  
Product will burn under fire conditions.Conditions for safe storage : Protect against light.  
Keep container tightly closed and dry.

Materials to avoid : No special restrictions on storage with other products.

Storage temperature : 36 - 86 °F (2 - 30 °C)

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type	Control parame-	Basis
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		(Form of exposure)	ters / Permissible concentration	
polyoxyethylene sorbitan monostearate	9005-67-8	TWA	10 mg/m <sup>3</sup>	ACGIH

**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Glove material: for example nitrile rubber
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing
- Hygiene measures : General industrial hygiene practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

- Appearance : emulsion
- Colour : white - milky
- Odour : No information available.
- Odour Threshold : No information available.
- pH : No data available
- Melting point/range : ca. 0 °C
- Boiling point/boiling range : >= 100 °C
- Flash point : > 100 °C
- Evaporation rate : not determined
- Lower explosion limit : not determined
- Upper explosion limit : not determined
- Vapour pressure : not determined
- Relative vapour density : Not applicable
- Density : 0.99 g/cm<sup>3</sup>
- Water solubility : dispersible
- Partition coefficient: n-octanol/water : Not applicable
- Auto-ignition temperature : No data available
- Ignition temperature : not determined
- Thermal decomposition : No data available
- Viscosity, dynamic : not determined
- Explosive properties : Not explosive
- Oxidizing properties : No data available

**9.2 Other information**

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No data available

**SECTION 10. STABILITY AND REACTIVITY**

- Reactivity : No hazards to be specially mentioned.
- Chemical stability : Stable under recommended storage conditions.
- Possibility of hazardous reactions : Possible incompatibility with materials listed under section 10.5.
- Conditions to avoid : Heat
- Incompatible materials : Strong acids and strong bases  
Strong oxidizing agents
- Hazardous decomposition products : No decomposition if used as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
(calculated from LD50 of components)
- Skin irritation : Prolonged skin contact may cause skin irritation.
- Sensitisation : No data available
- Carcinogenicity : This information is not available.
- Genotoxicity in vitro : No indication for mutagenicity known.
- Reproductive toxicity : This information is not available.
- STOT - repeated exposure : This information is not available.

**SECTION 12. ECOLOGICAL INFORMATION****Toxicity**

- Toxicity to fish  
polyoxyethylene sorbitan  
monostearate : Oncorhynchus mykiss (rainbow trout)  
LC50 (96 h) 90 mg/l

No data is available on the product itself.

**Persistence and degradability**

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Biodegradability : No data available

**Bioaccumulative potential**

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : Not applicable

**Mobility in soil**

Distribution among environmental compartments : No data available

**Other adverse effects**

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national / local legislation.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****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****49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**

**TSCA list** : Not relevant  
Not relevant

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

water	7732-18-5	70 - 90 %
Soybean oil	8001-22-7	10 - 20 %

**New Jersey Right To Know**

water	7732-18-5	70 - 90 %
Soybean oil	8001-22-7	10 - 20 %
polyoxyethylene sorbitan monostearate	9005-67-8	1 - 5 %

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

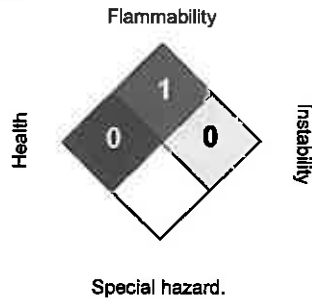
**TSCA** : Not On TSCA Inventory

: calcifediol hydrate

## SECTION 16. OTHER INFORMATION

## Further information

## NFPA:



## HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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.

**Abbreviations:** ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. CPR = Controlled Products Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HCS = Hazardous Communication Standard. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Good. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. SARA = Superfund Amendments and Reauthorization Act. TDG = Transportation of Dangerous Goods. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.