



Safety Data Sheet

Xan-Star D

SDS Revision Date: 06/01/2017

1. Identification

1.1. Product identifier

Product Identity Xan-Star D
Alternate Names Xanthan Gum

1.2. Relevant identified uses of the substance or mixture and application method

Intended use Viscosifier
Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name NorthStar Fluid Solutions
P.O. Box 271036
Louisville, Colorado 80027, USA

Emergency

CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. International +1-703-527-3887
Customer Service: NorthStar Fluid Solutions (303) 495-3130

2. Hazard(s) identification

2.1. Classification of the substance or mixture

May form Combustible dust
Not classified as Dangerous Goods.
Based on available information, not classified as hazardous

2.2. Label elements

Hazard Pictograms

Signal Word Caution
Hazard Statements May form combustible dust concentrations in air.

Precautionary Statements

[Prevention]:

None

[Response]:

None

[Storage]:

None

[Disposal]:

None



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Contains Substances

Xanthan gum

CAS Number

11138-66-2

2.3 Hazards not otherwise classified

None known

3. Composition/information on ingredients

| Substances | CAS Number | PERCENT (w/w) | GHS Classification - US |
|-------------|------------|---------------|---------------------------|
| Xanthan gum | 11138-66-2 | 60 - 100% | May form Combustible Dust |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

Inhalation

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Skin

Wash with soap and water. Get medical attention if irritation persists.

Ingestion

Under normal conditions, first aid procedures are not required.

4.2. Most important symptoms and effects, both acute and delayed

No significant hazards expected.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Water fog, carbon dioxide, foam, dry chemical.

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards

Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this potential. Decomposition in fire may produce toxic gases.

5.3. Advice for fire-fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust.
See Section 8 for additional information

6.2. Environmental precautions

None known.

6.3. Methods and material for containment and cleaning up

Scoop up and remove.

7. Handling and storage

7.1. Precautions for safe handling

Avoid creating or inhaling dust. Avoid dust accumulations. Slippery when wet. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store in a cool, dry location.

7.3. Specific end use(s)

None known.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

| Substances | CAS Number | OSHA PEL-TWA | ACGIH TLV-TWA |
|-------------|------------|----------------------|----------------------|
| Xanthan gum | 11138-66-2 | 15 mg/m ³ | 10 mg/m ³ |

8.2. Exposure controls

Personal Protective Equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory

Not normally needed. But if significant exposures are possible then the following respirator is recommended: Dust/mist respirator. (N95, P2/P3)

Eyes

Wear safety glasses or goggles to protect against exposure.

Skin

Normal work coveralls and gloves.

Engineering Controls

Use in a well ventilated area.



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Other Work Practices None known.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

| | |
|--|------------------------------------|
| Appearance | Powder / Granules, White to yellow |
| Odor | Slight |
| Odor threshold | No information available |
| pH | 7 |
| Melting point / freezing point | No information available |
| Initial boiling point and boiling range | No data available |
| Flash Point | No data available |
| Evaporation rate (Ether = 1) | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapor pressure (Pa) | No data available |
| Vapor Density | No data available |
| Specific Gravity | 1.5 |
| Solubility in Water | Soluble in water |
| Partition coefficient n-octanol/water (Log Kow) | No data available |
| Auto-ignition temperature | 204 °C / 400 °F |
| Decomposition temperature | No data available |
| Viscosity (cSt) | No data available |
| Density (lbs/gal) | No data available |
| 9.2. Other information | |
| VOC Content (%) | No data available |
| Molecular weight | 1000000 |

10. Stability and reactivity

10.1. Reactivity

Not expected to be reactive

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Will not occur

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

11. Toxicological information

11.1 Information on likely routes of exposure

Principle Route of Exposure Eye or skin contact inhalation.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

| | |
|---------------------|--------------------------------|
| Inhalation | May impede respiration. |
| Eye Contact | May cause mild eye irritation. |
| Skin Contact | None known. |
| Ingestion | None known. |

Chronis Effects/ Carcinogenicity

No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

11.3 Toxicity data

Toxicology data for the components

| Substances | CAS Number | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------|------------|---|-------------------|--|
| Xanthan gum | 11138-66-2 | > 5000 mg/kg (Rat) > 45000 mg/kg (Rat) | No data available | > 21 mg/L (Rat) 1h > 4.25 mg/L (Rat) 4h |

| Substances | CAS Number | Skin corrosion/irritation |
|-------------|------------|------------------------------------|
| Xanthan gum | 11138-66-2 | Not irritating to skin in rabbits. |

| Substances | CAS Number | Eye damage/irritation |
|-------------|------------|--------------------------------|
| Xanthan gum | 11138-66-2 | Non-irritating to rabbit's eye |

| Substances | CAS Number | Skin Sensitization |
|-------------|------------|--|
| Xanthan gum | 11138-66-2 | Did not cause sensitization on laboratory animals (guinea pig) |

| Substances | CAS Number | Respiratory Sensitization |
|-------------|------------|--|
| Xanthan gum | 11138-66-2 | No sensitization responses were observed |

| Substances | CAS Number | Mutagenic Effects |
|-------------|------------|--------------------------|
| Xanthan gum | 11138-66-2 | No information available |

| Substances | CAS Number | Carcinogenic Effects |
|-------------|------------|---|
| Xanthan gum | 11138-66-2 | Did not show carcinogenic effects in animal experiments |

| Substances | CAS Number | Reproductive toxicity |
|------------|------------|-----------------------|
| | | |

| | | |
|-------------|------------|---|
| Xanthan gum | 11138-66-2 | Animal testing did not show any effects on fertility. |
|-------------|------------|---|

| Substances | CAS Number | STOT - single exposure |
|-------------|------------|---|
| Xanthan gum | 11138-66-2 | No significant toxicity observed in animal studies at concentration requiring classification. |

| Substances | CAS Number | STOT - repeated exposure |
|-------------|------------|---|
| Xanthan gum | 11138-66-2 | No significant toxicity observed in animal studies at concentration requiring classification. |

| Substances | CAS Number | Aspiration hazard |
|-------------|------------|-------------------|
| Xanthan gum | 11138-66-2 | Not applicable |

12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

Product Ecotoxicity Data

No data available

Substance Ecotoxicity Data

| Substances | CAS Number | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Toxicity to Invertebrates |
|-------------|------------|--------------------------|--|----------------------------|--|
| Xanthan gum | 11138-66-2 | No information available | TLM96 320-560 ppm (Oncorhynchus mykiss) LC50 (96h) 490 mg/L (Oncorhynchus mykiss) | No information available | TLM96 > 75000 ppm (Mysidopsis bahia) LC50 (48h) 980 mg/L (Daphnia magna) |

12.2. Persistence and degradability

| Substances | CAS Number | Persistence and Degradability |
|-------------|------------|-------------------------------|
| Xanthan gum | 11138-66-2 | No information available |

12.3. Bioaccumulative potential

| Substances | CAS Number | Log Pow |
|-------------|------------|--------------------------|
| Xanthan gum | 11138-66-2 | No information available |

12.4. Mobility in soil

| Substances | Mobility |
|-------------|--------------------------|
| Xanthan gum | No information available |

13. Disposal considerations

13.1. Waste treatment methods

Disposal Method

Contaminated Packaging

Bury in a licensed landfill according to federal, state, and local regulations.
Follow all applicable national or local regulations.

14. Transport information



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| | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA |
|---|--|---|----------------------------------|
| 14.1. UN number | Not restricted | Not restricted | Not restricted |
| 14.2. UN proper shipping name | Not restricted | Note restricted | Not restricted |
| 14.3. Transport hazard class(es) | DOT Hazard Class: Not applicable | IMDG: Not applicable Sub Class: Not applicable | Air Class: Not applicable |
| 14.4. Packing group | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| IMDG | Not applicable | | |
| 14.6. Special precautions for user | None | | |

15. Regulatory information

| | |
|--|--|
| US TSCA Inventory | All components listed on inventory or are exempt. |
| EPA SARA Title III Extremely Hazardous Substances | Not applicable |
| EPA SARA (311,312) Hazard Class | None |
| EPA SARA (313) Chemicals | This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372). |
| EPA CERCLA/Superfund Reportable Spill Quantity | Not applicable |
| EPA RCRA Hazardous Waste Classification | If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA. |
| California Proposition 65 | All components listed do not apply to the California Proposition 65 Regulation. |
| MA Right-to-Know Law | Does not apply. |
| NJ Right-to-Know Law | Does not apply. |
| PA Right-to-Know Law | Does not apply. |
| Canadian Regulations Canadian DSL Inventory | All components listed on inventory or are exempt. |

16. Other information

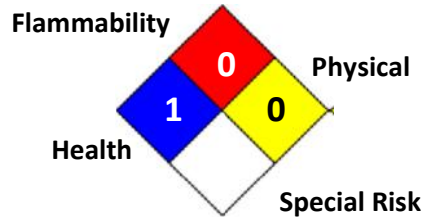
This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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Emergency Overview:

Risk Classification System:

| | |
|--------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL | 0 |
| PPE | E |



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