# Jungbunzlauer

# Xanthan Gum

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Xanthan Gum
Substance name : Xanthan Gum
Molecular formula : (C35-H49-O29)n
CAS-No. : 11138-66-2
Chemical nature : Solid

### Manufacturer or supplier's details

Company : Jungbunzlauer Inc. 7 Wells Avenue

Newton Centre, Massachusetts 02459

USA

www.jungbunzlauer.com

Telephone : +1 617 969-0900 Telefax : +1 617 964-2921

E-mail address : msds@jungbunzlauer.com

Responsible/issuing person

Emergency telephone : CHEMTREC number +1 800 424 9300

#### Recommended use of the chemical and restrictions on use

Recommended use : Food/ feedstuff additives, Cosmetic additive, Medical aids,

Industrial use

Restrictions on use : None known.

### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture according to GHS.

#### **GHS-Labelling - Label elements**

No GHS label elements required.

## **Hazards Not Otherwise Classified**

May form combustible dust concentrations in air (during processing).

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

Substance / Mixture : Substance

No ingredients are hazardous according to OSHA criteria.

#### **SECTION 4. FIRST AID MEASURES**

#### First aid procedures

# Jungbunzlauer

# **Xanthan Gum**

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

Protection of first-aiders : No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.

In case of skin contact : Immediately flush skin with large amounts of water.

In case of eye contact : If easy to do, remove contact lens, if worn.

Immediately flush eye(s) with plenty of water.

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

Notes to physician

Symptoms : No information available.

Risks : None known.

Treatment : Treat symptomatically.

### **SECTION 5. FIREFIGHTING MEASURES**

### Fire fighting

Suitable extinguishing media : Water spray

Dry powder Foam

Carbon dioxide (CO2)

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

In the event of fire and/or explosion do not breathe fumes.

### Protective equipment and precautions for firefighters

Specific hazards during

firefighting

: Do not use a solid water stream as it may scatter and spread

fire

Exposure to decomposition products may be a hazard to

health.

Hazardous decomposition products formed under fire

conditions.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Wear fire resistant or flame retardant clothing.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Avoid dust formation. Avoid breathing dust.

Ensure adequate ventilation, especially in confined areas. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

# Jungbunzlauer

# **Xanthan Gum**

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

No special environmental precautions required.

Methods and materials for containment and cleaning up

: Use mechanical handling equipment.

Keep in suitable, closed containers for disposal.

Clean contaminated surface thoroughly.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

#### **SECTION 7. HANDLING AND STORAGE**

### Handling

Advice on safe handling : Risk of dust explosion.

Avoid creating dust.

May form combustible dust concentrations in air (during

processing).

Do not breathe dust.

Avoid contact with skin and eyes. Wear personal protective equipment.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

To avoid ignition of vapours by static electricity discharge, all

metal parts of the equipment must be grounded.

: St1 Dust explosion class

## **Storage**

Requirements for storage

areas and containers

: Keep containers tightly closed in a dry, cool and well-

ventilated place.

Take measures to prevent the build up of electrostatic charge.

Further information on

storage conditions

: Avoid moisture.

Do not store at temperatures above 30 °C / 86 °F.

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

Other data : No decomposition if stored and applied as directed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : Provide adequate ventilation.

# Personal protective equipment

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

approved filter.

Use NIOSH approved respiratory protection.

Hand protection

Remarks : Choose gloves to protect hands against chemicals depending

# Jungbunzlauer

# **Xanthan Gum**

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Safety glasses

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety

practice.

Wash hands before breaks and immediately after handling the

product.

Remove contaminated clothing and protective equipment

before entering eating areas.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Colour : off-white, beige
Odour : characteristic
Odour Threshold : not determined
pH : 6 - 8, (25 °C)
Flash point : Not applicable
Evaporation rate : Not applicable
Flammability (solid, gas) : Flammable solid

Bulk density : 500 - 700 kg/m3 (ca. )

Solubility(ies)

Water solubility : completely soluble
Solubility in other solvents : insoluble, dispersible

Solvent: Alcohol

Partition coefficient: n-

octanol/water

: No data available

Ignition temperature : No data available
Thermal decomposition : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.

# Jungbunzlauer

# **Xanthan Gum**

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

Possibility of hazardous

reactions

: None known.

Conditions to avoid : Avoid dust formation.

Incompatible materials : No data available

Hazardous decomposition

products

: Build-up of dangerous/toxic fumes possible in cases of

fire/high temperature.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

# **Components:**

Xanthan Gum:

Acute oral toxicity : LD50 Oral Rat: 45,000 mg/kg

LD50 Oral Mouse: 20,000 mg/kg

Acute inhalation toxicity : Rat: 21 mg/l

Exposure time: 1 h

Assessment: The substance or mixture has no acute

inhalation toxicity

Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum

achievable concentration.

Acute dermal toxicity

Remarks: No skin irritation

#### Skin corrosion/irritation

## **Components:**

**Xanthan Gum:** 

Species: Rat

Exposure time: 360 h Result: No skin irritation Remarks: No skin irritation

Species: Rabbit Exposure time: 120 h Result: No skin irritation Remarks: No skin irritation

## Serious eye damage/eye irritation

## **Components:**

Xanthan Gum:

: Species: Rat

Exposure time: 120 h Result: No eye irritation Remarks: No eye irritation

# Jungbunzlauer

# **Xanthan Gum**

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

# Respiratory or skin sensitisation

# **Components:**

Xanthan Gum:

: Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Remarks: No known sensitising effect.

## Germ cell mutagenicity

### Components:

**Xanthan Gum:** 

Germ cell mutagenicity-

Assessment

: Animal testing did not show any mutagenic effects.

# Carcinogenicity

### **Components:**

Xanthan Gum:

Carcinogenicity - Assessment

: Not classifiable as a human carcinogen., Did not show carcinogenic, teratogenic or mutagenic effects in animal

experiments.

## Reproductive toxicity

## **Components:**

Xanthan Gum:

Effects on fertility : Species: Rat

Dose: 0.5 g/kg/d

Remarks: Fertility and developmental toxicity tests did not

reveal any effect on reproduction.

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

## Repeated dose toxicity

#### **Components:**

Xanthan Gum:

: Rat: < 1000 mg/kg Application Route: Oral Exposure time: 24 h

Remarks: No adverse effect has been observed in chronic

toxicity tests.

Repeated dose toxicity -

Assessment

: No adverse effect has been observed in chronic toxicity tests.

# **Aspiration toxicity**

#### **Components:**

Xanthan Gum:

: No aspiration toxicity classification

# Jungbunzlauer

## **Xanthan Gum**

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

#### **Potential Health Effects**

Aggravated Medical : None known.

Condition

Symptoms of Overexposure : No information available.

### **Experience with human exposure**

Inhalation : Respiratory system

No information available.

Skin contact : Skin

No information available.

Eye contact : Eyes

No information available.

Ingestion : Digestive organs

No information available.

#### **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.

#### 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.

#### 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.

### **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.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

# **Product:**

Toxicity to fish

Remarks: No adverse effect has been observed in acute

toxicity tests.

**Components:** Xanthan Gum:

Toxicity to fish : (Oncorhynchus mykiss (rainbow trout)): 420 mg/l

Exposure time: 96 h

# Jungbunzlauer

# **Xanthan Gum**

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

# Persistence and degradability

Components: Xanthan Gum:

Biodegradability : Biodegradation: 78 %

Exposure time: 28 d

Method: OECD Test Guideline 301F Remarks: Readily biodegradable

Biochemical Oxygen : Biochemical oxygen demand within 5 days

Demand (BOD) 200 mg/g

**Bioaccumulative potential** 

**Product:** 

Partition coefficient: n-

octanol/water Remarks: No data available

Components: Xanthan Gum :

Bioaccumulation : Remarks: The product is miscible in water and readily

biodegradable in both water and soil. Accumulation is not

expected.

Mobility in soil

Components: Xanthan Gum:

Distribution among : Remarks: No data available

environmental compartments

Other adverse effects

Components: Xanthan Gum:

Results of PBT and vPvB

assessment

Additional ecological

information

: This substance is not considered to be persistent,

bioaccumulating and toxic (PBT).

: This product has no known ecotoxicological effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Where possible recycling is preferred to disposal or

incineration.

Can be landfilled or incinerated, when in compliance with local

regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Dispose of as unused product.

# **SECTION 14. TRANSPORT INFORMATION**

# Jungbunzlauer

# Xanthan Gum

Version 1.0 Revision Date 05/28/2015 Print Date 05/28/2015

DOT

Not dangerous goods

**IATA** 

Not dangerous goods

**IMDG** 

Not dangerous goods

#### **SECTION 15. REGULATORY INFORMATION**

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.

California Prop 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

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

**REACH** This substance is exempt from registration according to

Regulation (EC) No. 1907/2006 (REACH).

**EINECS** On the inventory, or in compliance with the inventory

TSCA On TSCA Inventory

**DSL** All components of this product are on the Canadian DSL

**Inventories** 

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea),

NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

## **SECTION 16. OTHER INFORMATION**

## **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.

Revision Date : 05/28/2015