

MATERIAL SAFETY DATA SHEET

I - IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: XANTHAN GUM

II - COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Preparation

INCI: Xanthan gum

Chemical name : Polysaccharide (C₃₅ H₄₉ O₂₉)_n

Composition: 100% Xanthan Gum

n° CAS : 111-38-66-2

n° EINECS : 234-394-2

Classification System : Food & Pharmaceutics
Additive

Hazardous impurities: NA

III - HAZARDS IDENTIFICATION

Form and appearance: Solid

Absorption: Inhalation, Ingestion

General Hazards: Xanthan gum is not considered as dangerous according to European legislation. Nevertheless, it may cause irritation of the respiratory tracts, of the eyes or the skin as well as allergic reactions.

Potential Health effects:

Eyes: Irritant, can cause redness, itching and watering

Skin: Skin inflammation characterized by itches and red blotches

Inhalation: Irritant for the lungs

Ingestion: If highly concentrated can cause nausea and gastric pains

Potential chronic effects on health: To our present knowledge, can not cause cancer in humans or animals

Carcinogenic effects: To our present knowledge, can not cause cancer in humans or animals

IV - FIRST AID MEASURES

Medical health check required: In case of persistent problems please see a medical doctor.

First aid measures: Flush with water

Action to be avoided: Nothing in particular

Information :

Skin contact : Flush with water for at least 15 minutes

Eye contact : Flush with water for at least 15 minutes

Inhalation in high concentration: move the person to fresh air

Ingestion in high concentration: don't provoke vomiting. Call a medical doctor and loosen the person's clothes to allow a better ventilation

V - FIRE-FIGHTING MEASURES

Suitable extinguishing media : Fire extinguisher with water and/or carbon dioxide

Particular precautions: Mixing Xanthan gum and air can be explosive under certain conditions. Avoid hot spots

VI - ACCIDENTAL RELEASE MEASURES

Cleaning Method: Use of shovels to evacuate the solid spread on the ground. Flush with water through sewage system

Personal precautions : Use personal protective equipment against dusts

Environmental precautions : No special environmental precautions required

VII - HANDLING AND STORAGE

Handling :

Technical measures : NA

Safe handling active: Avoid eye contact and contact with clothes. Do not ingest in high doses

Keep the packing tightly closes until the place of use

Storage :

Storage conditions : Keep tightly closed in a dry cool place

Distance from incompatible material: NA

Packaging material : Food packages

VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure control: Use in closed but well ventilated area. Ensure an adequate ventilation system in order to maintain sufficient air supply

Professional exposure control:

Eye protection : Wear protective glasses

Body protection: Not in particular if handled correctly

Respiratory tracts protection: Wear appropriate protective mask

IX - PHYSICAL AND CHEMICAL PROPERTIES

Form : Gas Liquid Solid

Specific temperature of form change: NA

Auto ignition temperature : > 200°C

Colour : white to cream powder

Odours : None

Density : 650-850 kg/m³

Solubility : completely soluble

Flash point : NA

Explosion limits : Due to presence of dusts

pH of solution : 6 – 8 in 25% in water

X - STABILITY AND REACTIVITY

Stability : Stable at normal conditions in a dry and cool place, in an closed package at least 5 years

Dangerous reaction: Mixing Xanthan gum and air can be explosive under certain conditions. Avoid hot spots

Hazardous decomposition products : Dioxide and monoxide carbon

XI - TOXICOLOGICAL INFORMATIONS

Toxicity: LD₅₀/p.o./rat = 45.000 mg/kg

Oral chronic toxicity rat: none < 1000 mg/kg/24h

Carcinogenic effects: To our present knowledge, can not cause cancer in humans or animals

XII - ECOLOGICAL INFORMATIONS

Biodegradability : easy 93% after 14 days (DIN EN 29888)
Eco-toxicology effects : CL50/96h/Rainbow trout = 420 mg/l

XIII - DISPOSAL CONSIDERATIONS

Waste from residues/unused material or contaminates package can be incinerated or recycled

XIV - TRANSPORT INFORMATIONS

International Regulatory Information (land, air, sea, route): NA

XV - REGULATORY INFORMATIONS

EEC Food Additive : E415 - USP/NF - FCC

XVI - OTHER INFORMATIONS

Date : January 2017