



MATERIAL SAFETY DATA SHEET:

SoluGrain

Version number: SG2016-01
 Date of updating: 27-04-2016
 Date of previous version: -

1. Identification of the product and the company.

1.1 Product identifier

Product name: SoluGrain
 Chemical name: N.A.
 Reach Registration number: N.A.

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

Acidifier / mould inhibitor for use in feed industry.

1.3 Details of the supplier of the safety data sheet

Supplier: FF Chemicals BV
 Address: Moltbos 34, 6371EA, Landgraaf, Nederland
 Phone numbers: 0031633954055 en 0031655824567
 Fax: 0031184652569

1.4 Emergency telephone number

Emergency Phone numbers:

- Lifethreatening. tel. 112
- NVIC (nationaal vergiftigingen informatie centrum) tel. +3130274888 (NL)
- Anti-poison centre. tel. +3270245245 (BE)

2. Hazard identification

2.1 Classification fo the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008

Hazard: H315; Causes skin irritation.
 H318; Causes serious eye damage.

2.2 Label elements



Hazard pictograms:
 Signal word:

DANGER

Address: Bloemendaalsezeedijk 10-C, 4765BP Zevenbergschenhoek, The Netherlands
 Tel: +31655824567
 Fax: +31184659014
 E-mail: Cornelius@ffchemicals.nl

Hazard:	H315; Causes skin irritation. H318; Causes serious eye damage.
Precautionary statements:	P261; Avoid breathing dust/fume/gas/mist/vapours/spray P271; Use only outdoors or in a well-ventilated area P280; Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338; IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P310; Immediately call a POISON CENTER or doctor/physician P312; Call a POISON CENTER or doctor/physician if you feel unwell P304+P340; IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

2.3 Other hazards

Other hazards: -

3. Composition / Information on ingredients

3.1 Substance

Name:	-
CAS number:	-
Einecs number:	-
Molecular weight:	-
Dangerous components:	-
Further information:	The product contains no substances which at their given concentration are considered to be hazardous to health according directive 2001/58/EG.

3.2 Mixture

1. 50-85% Propionic Acid, CAS Nr.; 79-09-4, EC Nr.; 201-176-3. Skin Corr., 1B, H314. Flam. Liq. 3, H226
2. 0-20% SodiumFormate, CAS Nr.; 141-53-7, EC Nr.; 205-488-0. Eye. Dam. 1- H318
3. 0-5% Sorbic Acid, CAS Nr.; 110-44-1-0, EC Nr.; 203-768-7. Eye. Irrit. 1 - Skin Irrit. 2. H315, H319

4. First-aid measures

4.1 Description of first aid measures

General information:	In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately and launder before reusing.
After inhalation:	Exposure by inhalation may cause respiratory irritation. Remove the casualty to fresh air. If inhaled, remove to fresh air. Obtain medical attention if symptoms occur.
After ingestion:	If swallowed, rinse mouth with and give person plenty of water to drink. Do not induce vomiting. Obtain medical attention if symptoms occur. Never give anything by mouth to an unconscious person.
After skin contact:	In case of contact with the skin wash off with plenty of water and soap.
After eye contact:	Separate eyelids and rinse immediately with water for 15 minutes. Open eyelids forcibly. Obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Inhalation :	May give off gas, vapor or dust that is very irritating to the respiratory system.
Ingestion :	May cause irritation to mouth, throat and stomach.
Skin contact:	May cause skin irritation.
Eye contact :	Causes serious eye damage.
Over-exposure signs/symptoms:	Adverse symptoms may include pain, watering and redness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Use foam, carbon dioxide or dry chemical powder. Water spray jet allowed.
Unsuitable extinguishing media:	Full water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards:	In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide.
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5.3 Advice for firefighters

Special protective clothing:	Wear suitable protective clothing. Self-contained breathing apparatus.
Environmental precautions:	Vacuum or sweep up material and place in a designated, labelled waste container. Clean up affected area with a large amount of water.

Personal Precautions: Avoid creating dusty conditions and prevent wind dispersal. Use suitable protective equipment (section 8).

Special methods: -

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. High risk of slipping due to leakage/spillage of product.

For emergency responders : If specialized clothing is required to deal with the spillage (PPE), take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental Precautions

Environmental precautions: Try to avoid that the material gets into sewers or open waters.

6.3 Methods and materials for containment and cleaning up

Cleaning measures: Pick up with absorbent material (e.g.; sand, silica, acid binder, universal binder, sawdust)

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7. Handling and storage

7.1 Precautions for safe handling

Handling: Use with adequate ventilation. Local exhaust ventilation should be provided. Avoid creating dusty conditions and prevent wind dispersal. Avoid contact with the eyes, skin and clothing. Take care for a safety shower and an eyewash installation.

General protective/hygiene measures: Do not eat, drink or smoke during work time. Wash hands before breaks and after work.

Advise on protection against fire/explosions: Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in original packaging. Store dry and cool in a well ventilated room. Keep away from heat, the sun and sources of ignition.

Avoiding materials: Strong oxidizing agents.

7.3 Specific end use(s)

Recommendations : N.A.

Industrial sector specific solutions: N.A.

8. Exposure controls / personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls

Exposure limit values: Not available.

Hygiene measures : When using do not eat, drink or smoke. Wash hands after handling compounds and before eating, smoking and using the lavatory at the end of the day.

Personal protective equipment: Wear suitable gloves (PVC or rubber, EN 374). Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye/face protection: Appropriate Material; Butyl rubber or nitrile rubber. Safety glasses with side shields (EN 166) or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Production scale and respiratory system: If the exposure limit is exceeded and engineering controls are not feasible, a full face piece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Other: Normal chemical working clothes.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance: Liquid

Colour: Transparant / yellowish

Odour: Characteristic

Solubility in water: Completely

Bulk Density: 1.00-1.15 g/cm³ (20 °C)

Melting point: N.A.

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Flash point:	> 100 °C
Ignition temperature:	> 200 °C
Auto-ignition temperature:	> 200 °C
pH:	3.5 – 5.5 (1% in water)
Flammability:	The product is non flammable
Boiling temperature:	> 100 °C
Viscosity:	0 – 20 cPs (20°C)

9.2 Other information

No data available

10. Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability

Stability: Stable under recommended storage and handling

10.3 Possibility of hazardous Reactions No data available

10.4 Conditions to avoid

Avoiding measures: Heat, protect from the sun.

10.5 Incompatible materials

Materials: Oxidizing agents, alkalies.

10.6 Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

Remark: In case of fire: see section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:	Oral; > 500mg/kg (Rat, method OECD 401) Dermal; > 500mg/kg (Rabbit, method OECD 434) Inhalational; > 0.105 mg/l for 4 hours (Rat)
Effects for the skin:	Corrosive (Rabbit, method OECD 404)
Effect for the eyes:	Corrosive (Rabbit, OECD 434)
Effects if inhaled:	May cause respiratory irritation and burns.
Carcinogenicity:	No carcinogenic suspected agent.

12. Ecological information

12.1 Toxicity

Fish toxicity:	LC50/Lepomis macrochirus: N.A.
Daphnia toxicity:	EC50/Daphnia Magna: N.A.
Algae toxicity:	EC50/Pseudokirchneriella subcapitata : N.A.
Bacteria toxicity:	EC10/Pseudomonas putida: N.A.

12.2 Persistence and degradability

Environmental effects:	Readily biodegradable
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12.3 Bioaccumulative potential

Bio concentration:	This product shows a low bioaccumulation potential.
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12.4 Mobility in soil

Mobility	Water-soluble liquid Do not allow to enter groundwater, surface water or drains, even in small quantities.
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12.5 Results of PBT and vPvB assessment

PBT :	The product is not considered to be a PBT.
vPvB :	The product is not considered to be a vPvB.

12.6 Other adverse effects

No known significant effects or critical hazards.

12.7 Other Information

Do not discharge product unmonitored into the environment.

13. Disposal considerations

13.1 Waste treatment methods

Product:	Waste must be disposed of in accordance with national and local environmental regulations (EC Directive 91/689/EEC). Controlled biodegradation in waste water treatment is possible.
Packaging:	Packaging that cannot be cleaned should be disposed off as product waste.

14. Transport information

This product is not classified as ADR.

14.1 Transport ADR/RID/AND

Class	-
Packaging group	-
Hazard identification no.	-
UN number	-
Technical name	-

Tunnel restriction code -
Label -

14.2 Transport IMDG

Class -
Packaging group -
UN number -
Technical name -
EmS -
Label -

14.3 Transport ICAO-TI / IATA

Class -
Packaging group -
UN number -
Technical name -
Label -

14.4 Other information

No data available

14.5 Environmental hazards

See section 14.1-14.3 if relevant

14.6 Special precautions for user

No data available

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

Not relevant

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) constituting Appendix C to the Convention concerning International Carriage by Rail (COTIF)

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International Maritime Dangerous Goods Code (IMDG CODE)

International Air Transport Association - Dangerous Goods Regulation (IATA DGR)

Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste (94/62/EC)

Ordinance of the Minister of Labour and Social Policy of 29 November 2002 concerning maximum permissible concentrations and intensities of agents harmful to health in a work environment (Journal of Laws No 217 item 1833) with subsequent amendments.

Directive of the European Parliament and of the Council of 19 December 2008 on waste and repealing certain Directives (2008/98/EC)

Ordinance

Annex XIV - List of substances subject to authorisation

Substances of very high concern: None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

Other EU regulations: All components are listed or exempted.

15.2 Chemical Safety Assessment: No data available

16. Other information

The information contained in the Material Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality.

The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

Safety, Health & Environment Department. Telephone no.: **+0031655824567**