

# SAFETY DATA SHEET

New Zealand

Section 1. Identification

**Product name** 

HAM'S/F-12, without L-Glutamine or Sodium Bicarbonate (+1.176g/L)

**Catalogue Number** SH30056

Powder

Not available. Other means of identification

Identified uses

Product type

Supplier

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## **Emergency telephone number**

# Section 2. Hazards identification

**HSNO Classification** 6.1 - ACUTE TOXICITY (oral) - Category E

6.4 - EYE IRRITATION - Category A (Irritant)

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 20.3% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 20.3%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

**GHS label elements** 

Signal word Warning

**Hazard statements** May be harmful if swallowed.

Causes serious eye irritation.

**Precautionary statements** 

Prevention Wear eye or face protection. Wash thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a

POISON CENTER or doctor/physician if you feel unwell.

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7558-79-4

Storage Not applicable.

Disposal Not applicable.

**Symbol** 



Other hazards which do not result in classification

May form explosible dust-air mixture if dispersed.

# Section 3. Composition/information on ingredients

Substance/mixture Mixture

Other means of identification Not available.

**CAS** number/other identifiers

disodium hydrogenorthophosphate

CAS number Not applicable.
EC number Mixture.

Product codeSH30056Ingredient name%CAS numbersodium chloride<72.5</td>7647-14-5potassium chloride<2.2</td>7447-40-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### **Description of necessary first aid measures**

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing,

if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

Ingestion Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest

in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical

attention.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the nose, throat and lungs.

**Ingestion** May be harmful if swallowed.

**Skin contact** No known significant effects or critical hazards.

**Eye contact** Causes serious eye irritation.

#### Over-exposure signs/symptoms

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

IngestionNo specific data.SkinNo specific data.

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Adverse symptoms may include the following: Eves

> pain or irritation watering redness

#### Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments Not available.

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical surveillance for 48 hours.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Firefighting measures

#### **Extinguishing media**

Hazardous thermal

Suitable Use dry chemical powder. Not suitable Do not use water iet

chemical

Specific hazards arising from the May form explosible dust-air mixture if dispersed.

Decomposition products may include the following materials:

decomposition products carbon dioxide

carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds

metal oxide/oxides Not available.

Special precautions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for

fire-fighters

Hazchem code

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

equipment and emergency

procedures

Personal precautions, protective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and material for containment and cleaning up

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container.

Large spill

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.

# Section 7. Handling and storage

# Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

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# Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

## **Control parameters**

#### Occupational exposure limits

None.

Appropriate engineering

controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# Section 9. Physical and chemical properties

# **Appearance**

Physical state Solid. [Powder.] Colour Not available Not available Odour Not available **Odour threshold** Not available. **Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning rate** Not available. **Burning time** Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not available Lower and upper explosive Not available. (flammable) limits Not available.

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.SolubilityNot available.

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Solubility in water

Not available Not available

Partition coefficient: n-octanol/

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. Viscosity Not available. Flow time (ISO 2431) Not available.

**Aerosol product** 

Type of aerosol Not applicable. Heat of combustion Not available. Ignition distance Not applicable. **Enclosed space ignition - Time** Not applicable.

equivalent

Enclosed space ignition -

Not applicable.

Flame height Not applicable. Flame duration Not applicable.

# Section 10. Stability and reactivity

**Chemical stability** The product is stable.

Possibility of hazardous

Deflagration density

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).

Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate

static electricity during transfer by earthing and bonding containers and equipment before

transferring material. Prevent dust accumulation.

Incompatible materials Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

# Section 11. Toxicological information

# Information on likely routes of exposure

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits may cause

irritation of the nose, throat and lungs.

Ingestion May be harmful if swallowed.

Skin contact No known significant effects or critical hazards.

Eye contact Causes serious eye irritation.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion No specific data. Skin contact No specific data.

Eye contact Adverse symptoms may include the following:

pain or irritation watering redness

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

# **Acute toxicity**

Product/ingredient name Result Species Dose Exposure potassium chloride LD50 Oral Rat - Male 2600 mg/kg LD50 Oral Rat 17000 mg/kg disodium hydrogenorthophosphate

# Irritation/Corrosion

Not available.

# **Sensitisation**

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Not available.

## Potential chronic health effects

**General** No known significant effects or critical hazards.

**Inhalation** Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Eye contact No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Teratogenicity No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

**Chronic toxicity** 

Not available.

#### Carcinogenicity

Not available.

#### **Mutagenicity**

Not available.

## **Teratogenicity**

Not available.

#### Reproductive toxicity

Not available.

## Specific target organ toxicity

Not available.

#### **Aspiration hazard**

Not available.

# Numerical measures of toxicity

# **Acute toxicity estimates**

RouteATE valueOral3398.53 mg/kg

# Section 12. Ecological information

**Ecotoxicity** No known significant effects or critical hazards.

# Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium chloride	Acute EC50 2430000 μg/l Fresh water Acute EC50 519.6 mg/l Fresh water Acute EC50 402.6 mg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 1000000 μg/l Fresh water Chronic LC10 781 mg/l Fresh water	Algae - Navicula seminulum Crustaceans - Cypris subglobosa Daphnia - Daphnia magna Aquatic plants - Lemna minor Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 48 hours 48 hours 96 hours 96 hours 3 weeks
potassium chloride	Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water Acute EC50 1337000 µg/l Fresh water Acute EC50 9.24 g/L Fresh water Acute EC50 141.46 mg/l Fresh water Acute LC50 9.68 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult Algae - Navicula seminulum Algae - Desmodesmus subspicatus Daphnia - Daphnia magna Crustaceans - Pseudosida ramosa - Neonate	96 hours 21 days 8 weeks 96 hours 72 hours 48 hours
disodium hydrogenorthophosphate	Acute LC50 880 mg/l Fresh water Acute LC50 3580000 μg/l Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna	96 hours 48 hours

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## Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient nameLogPowBCFPotentialdisodium-5.8-low

hydrogenorthophosphate

**Mobility in soil** 

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

# Section 13. Disposal considerations

## **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information
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Regulatory information	UN number	Proper shipping r	Proper shipping name		PG*			
New Zealand Class	Not available.	Not available.		Not available.	-			
			No.					
IATA Class	Not available.	Not available.		Not available.	-			
			-					
			No.					
IMDG Class	Not available.	Not available.		Not available.	-			
			No.					

PG\* : Packing group

Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of Marpol and the IBC Code Not available.

# Section 15. Regulatory information

HSNO Approval Number Not available.
HSNO Group Standard Not available.

**HSNO Classification** 6.1 - ACUTE TOXICITY (oral) - Category E

6.4 - EYE IRRITATION - Category A (Irritant)

# International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

# Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

# **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

New Zealand Not determined.

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Australia Not determined.

Europe Not determined.

United States Not determined.

Canada inventory Not determined.

China At least one component is not listed.

Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia Not determined

# Section 16. Other information

## **History**

Date of printing 12 April 2020

Date of issue/ Date of revision 16 May 2019

Date of previous issue No previous validation

Version 0.01

**Key to abbreviations** ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

References Not available.

Indicates information that has changed from previously issued version.

# Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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