

Safety Data Sheet

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier**

Product Name | **BAC-N-FOS**
Synonyms | Blend of phosphate and bicarbonate
SDS Number/Grade | 25

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

Relevant identified use(s) | Bacon processing - Helps to reduce formulation of nitrosamines and increase yield of No. 1 slices.

1.3 Details of the supplier of the safety data sheet

Manufacturer | Innophos
259 Prospect Plains Rd. Bldg A
Cranbury, NJ 08512-3706
United States

Telephone (Technical) | 609-495-2495

Responsible Party - EU | LSR Associates Ltd
Woolley Road
Alconbury, Cambridgeshire PE28 4HS
United Kingdom

Telephone (General) | +44 (0) 1954 212132
info@lsr-associates.com

1.4 Emergency telephone number

Manufacturer | 800-424-9300 - Chemtrec - within USA and Canada
Manufacturer | +1 703-527-3887 - Chemtrec - outside USA and Canada (collect calls accepted)
Manufacturer | 615-386-7816 - Innophos Emergency Communication Team (ECT)

Section 2: Hazards Identification**EU/EEC**

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP | Not classified
DSD/DPD | Not classified

2.2 Label Elements

CLP

Hazard statements | No label element(s) required

DSD/DPD

Risk phrases | No label element(s) required

2.3 Other Hazards

CLP | According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

DSD/DPD | According to European Directive 1999/45/EC this material is not considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 | Not classified

2.2 Label elements

OSHA HCS 2012

Hazard statements | No label element(s) required

2.3 Other hazards

OSHA HCS 2012 | This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS | Not classified

2.2 Label elements

WHMIS | No label element(s) required.

2.3 Other hazards

WHMIS | In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

| Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments

Polyphosphoric acids, sodium salts	CAS: 68915-31-1 EC Number: 272-808-3	75% TO 100%	Ingestion/Oral-Rat LD50 • 3053 mg/kg	EU DSD/DPD: Not classified EU CLP: Not classified OSHA HCS 2012: Not classified	NDA
Carbonic acid sodium salt (1:1)	CAS: 144-55-8 EC Number: 205-633-8	0% TO 25%	Ingestion/Oral-Rat LD50 • 4220 mg/kg	EU DSD/DPD: Not classified EU CLP: Not classified OSHA HCS 2012: Not classified	NDA

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Seek medical attention.
Skin	IF ON SKIN: Wash with plenty of soap and water. If irritation develops and persists, get medical attention. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
Eye	In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. Remove contact lenses if worn. If eye irritation persists: Get medical advice/attention.
Ingestion	If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Induce vomiting (only in conscious persons) Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

4.2 Most important symptoms and effects, both acute and delayed

- | Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
---------------------------	--

4.4 Other information

- | Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media	Not combustible. Use extinguishing media suitable for surrounding fire.
Unsuitable Extinguishing Media	None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards	Non-combustible.
Hazardous Combustion Products	Oxides of sodium, oxides of phosphorus.

5.3 Advice for firefighters

- | Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. Keep unauthorized personnel away. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions** | Ventilate enclosed areas. Do not touch or walk through spilled material.
- Emergency Procedures** | Keep unauthorized personnel away.

6.2 Environmental precautions

- | Do not flush to drain. Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures** | Sweep or vacuum up and place in an appropriate closed container. Avoid dispersal of dust in air. Do not return material to its original container. Clean up residual material by washing area with water. Collect washings for disposal. Decontaminate tools and equipments after cleanup. LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading.

6.4 Reference to other sections

- | Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

- Handling** | Avoid direct or prolonged contact with skin and eyes. Avoid breathing dust. Avoid contamination of storage containers.

7.2 Conditions for safe storage, including any incompatibilities

- Storage** | Store in tightly closed containers. Store in an area that is sanitary and isolated from all toxic and harmful substances. Store in an area that is cool and dry. Avoid contamination of storage containers. Product is hygroscopic and tends to cake on storage.

7.3 Specific end use(s)

- | Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines		
	Result	Czech Republic
Carbonic acid sodium salt (1:1) (144-55-8)	Ceilings	10 mg/m ³ Ceiling
	TWAs	5 mg/m ³ TWA

8.2 Exposure controls

- Engineering Measures/Controls** | Dilution ventilation. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
- Personal Protective Equipment**
- Respiratory** | For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face	Wear eye protection.
Hands	Wear appropriate gloves.
Skin/Body	Wear long sleeves and/or protective coveralls.
General Industrial Hygiene Considerations	Wash hands before eating.
Environmental Exposure Controls	Follow best practice for site management and disposal of waste.

Key to abbreviations

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White powder with no odor.
Color	White	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	8.1
Specific Gravity/Relative Density	Data lacking	Water Solubility	Soluble
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

| No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

| No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

| Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

| Hazardous polymerization will not occur.

10.4 Conditions to avoid

| Dusting conditions. extreme humidity.

10.5 Incompatible materials

| None known.

10.6 Hazardous decomposition products

| None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

	CAS	
BAC-N-FOS	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • 6200 mg/kg • Comments: Polyphosphoric acids, sodium salts; Ingestion/Oral-Rat LD50 • 4220 mg/kg • Comments: Carbonic acid sodium salt (1:1); Irritation: Eye-Rabbit • Essentially non-irritating • Comments: Washed - for Polyphosphoric acids, sodium salts; Eye-Rabbit • Mild irritation • Comments: Unwashed - Polyphosphoric acids, sodium salts; Eye-Rabbit • 100 30 Second(s) • Mild irritation • Comments: Carbonic acid sodium salt (1:1); Skin-Human • 30 3 Day(s) • Mild irritation • Comments: Carbonic acid sodium salt (1:1); Skin-Rabbit • 500 24 Hour(s) • Mild irritation • Comments: Polyphosphoric acids, sodium salts

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure | Inhalation, Skin, Eye, Ingestion

Medical Conditions Aggravated by Exposure | Disorders of the lungs. Skin/Dermal .

Potential Health Effects

Inhalation

Acute (Immediate) | Exposure to dust may cause irritation. Nuisance dust may affect the lungs but

	reactions are typically reversible.
Chronic (Delayed)	No data available.
Skin	
Acute (Immediate)	May cause mild irritation. Exposure to dust may cause mechanical irritation.
Chronic (Delayed)	No data available
Eye	
Acute (Immediate)	May cause mild irritation. Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.
Chronic (Delayed)	No data available.
Ingestion	
Acute (Immediate)	Low acute oral toxicity. Ingestion of large quantities may cause abdominal pain, abdominal cramps, nausea, vomiting, diarrhea.
Chronic (Delayed)	No data available.
Carcinogenic Effects	This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Key to abbreviations

LD = Lethal Dose

Section 12 - Ecological Information

12.1 Toxicity

| No data found for product.

12.2 Persistence and degradability

| No data found for product.

12.3 Bioaccumulative potential

| No data found for product.

12.4 Mobility in Soil

| No data found for product.

12.5 Results of PBT and vPvB assessment

| PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

Ecological Fate | No data found for product.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste	Rinse containers before disposal.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user | None specified.

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

Section 15 - Regulatory Information

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

SARA Hazard Classifications | None

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Carbonic acid sodium salt (1:1)	144-55-8	Yes	No	Yes	Yes	No
Polyphosphoric acids, sodium salts	68915-31-1	Yes	No	Yes	Yes	No
Inventory (Con't.)						
Component	CAS	New Zealand	Philippines PICCS	TSCA		
Carbonic acid sodium salt (1:1)	144-55-8	Yes	Yes	Yes		
Polyphosphoric acids, sodium salts	68915-31-1	Yes	Yes	Yes		

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Polyphosphoric acids, sodium salts 68915-31-1 Not Listed
- Carbonic acid sodium salt (1:1) 144-55-8 Uncontrolled product according to WHMIS classification criteria

Canada - WHMIS - Ingredient Disclosure List

- Polyphosphoric acids, sodium salts 68915-31-1 Not Listed
- Carbonic acid sodium salt (1:1) 144-55-8 Not Listed

Environment

Canada - CEPA - Priority Substances List

- Polyphosphoric acids, sodium salts 68915-31-1 Not Listed
- Carbonic acid sodium salt (1:1) 144-55-8 Not Listed

Germany

Environment**Germany - TA Luft - Types and Classes**

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	ID Number 374, hazard class 1 - low hazard to waters

Germany - Water Classification (VwVwS) - Annex 3

• Polyphosphoric acids, sodium salts	68915-31-1	ID Number 7117, hazard class 1 - low hazard to waters
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

Philippines**Other****Philippines - Priority Chemical List**

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

Singapore**Other****Singapore - Corrosive and Explosive Substances - Corrosive Substances**

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - CAA (Clean Air Act) - Class II Ozone Depletors

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Polyphosphoric acids, sodium salts	68915-31-1	Not Listed
• Carbonic acid sodium salt (1:1)	144-55-8	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- FDA Status: This product meets the compositional requirements of: 21 CFR 182.6760
SODIUM HEXAMETAPHOSPHATE
FDA Status: This product meets the
compositional requirements of: 21 CFR 184.1736 SODIUM BICARBONATE

Section 16 - Other Information**Last Revision Date** | 07/March/2014**Preparation Date** | 13/August/2004**Disclaimer/Statement of Liability** | The information herein is given in good faith but no warranty, expressed or implied, is made.**Key to abbreviations**NDA = No Data Available
