

# **SAFETY DATA SHEET**

[Required under safety and health regulations for shipping and handling]

Version: 2021 Date Updated: March 26, 2021

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

Product Name	D(-)-Fructose
Product Code(s)	FB0213
Recommended Use	For Laboratory Research Use Only
	Not for Human or Animal Drug Use

Supplier	Bio Basic Inc.
Address	20 Konrad Crescent, Markham, Ontario,
	Canada, L3R 8T4
Telephone	(905) 474 4493
Fax	(905) 474 5794
For Chemical Emergency Phone#	(416) 995 9730

# SECTION 2. ------ HAZARDS IDENTIFICATION ------

# Classification of the substance or mixture

Not a hazardous substance or mixture.

## GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

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

Chemical Name	EC No.	CAS-No	Weight %
D(-)-Fructose	200-333-3	57-48-7	<100

# SECTION 4. ----- FIRST-AID MEASURES------

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

# Indication of any immediate medical attention and special treatment needed No data available

# SECTION 5. ----- FIRE FIGHTING MEASURES -----

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special hazards arising from the substance or mixture Carbon oxides

# Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **Further information**

No data available

# SECTION 6. ----- ACCIDENTAL RELEASE MEASURES------

# Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

## **Environmental precautions**

No special environmental precautions required.

# Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

#### SECTION 7. ----- HANDLING AND STORAGE-----

#### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

#### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 13: Non Combustible Solids

# Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

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

#### **Exposure controls**

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

No special environmental precautions required.

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

# Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: colourless
b)	Odour	No data available
C)	Odour Threshold	No data available
d)	рН	5.0 - 7 at 18 g/l at 25 °C (77 °F)
e)	Melting point/freezing point	Melting point/range: 119 - 122 °C (246 - 252 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	()No data available
g) h)	Flash point Evaporation rate	()No data available No data available
		· ·
h)	Evaporation rate Flammability (solid,	No data available
h) i)	Evaporation rate Flammability (solid, gas) Upper/lower flammability or	No data available No data available

- m) Relative density No data available
- n) Water solubility 18 g/l at 20 °C (68 °F) completely soluble
- o) Partition coefficient: No data available noctanol/water
- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

# Other safety information

No data available

# SECTION 10. ------STABILITY AND REACTIVITY ------

#### Reactivity No data available

# Chemical stability

Stable under recommended storage conditions.

#### **Possibility of hazardous reactions** No data available

Conditions to avoid No data available

#### Incompatible materials Strong oxidizing agents

# Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

### SECTION 11. ----- TOXICOLOGICAL INFORMATION ------

# Acute toxicity

Inhalation: No data available Dermal: No data available LD50 Intravenous - Rabbit - 15 g/kg

#### Skin corrosion/irritation No data available

#### Serious eye damage/eye irritation No data available

**Respiratory or skin sensitisation** No data available

Germ cell mutagenicity

No data available

# Carcinogenicity

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.

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.

**Reproductive toxicity** 

No data available No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

# Additional Information

RTECS: LS7120000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### SECTION 12. ----- ECOLOGICAL INFORMATION -----

**Toxicity** No data available

Persistence and degradability No data available

**Bioaccumulative potential** No data available

# **Mobility in soil** No data available

**Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects No data available

#### SECTION 13. ----- DISPOSAL CONSIDERATIONS ------

## Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

# SECTION 14. ----- TRANSPORT INFORMATION -----

# DOT (US)

Not dangerous goods

# IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

## SECTION 15. ----- REGULATORY INFORMATION -----

QF26 Rev 2

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

# SECTION 16. ----- OTHER INFORMATION-----

Further information: no limited for paper copy, just for internal uses. For research use only. Not intended for human or animal diagnostic or therapeutic uses.

#### Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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**End of SDS**