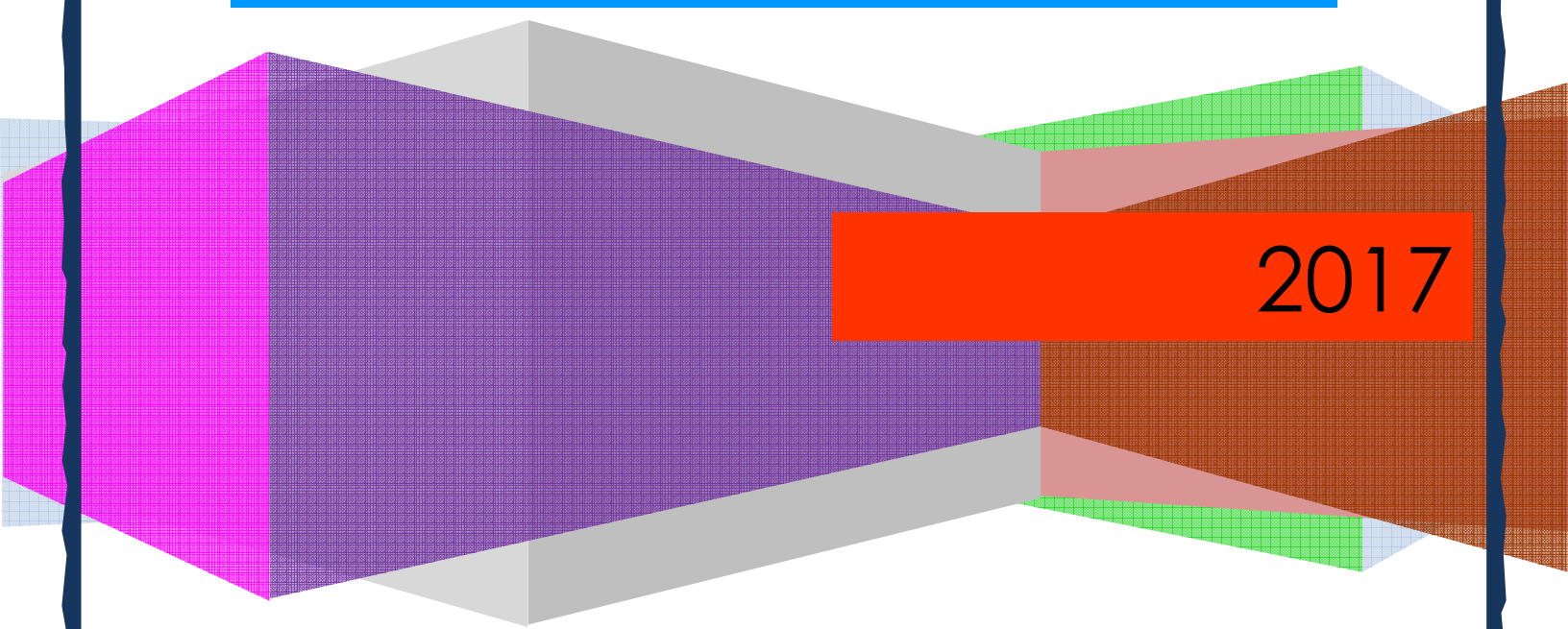


Goya Agro Industries Limited

Sorbitol 70% IP (Non Crystallizing)

www.goyaagro.com



2017

I. Company Profile

Goya Agro Industries Ltd. and **Sadasat Corn Products (P) Limited** are associated companies and are major producers of diverse consumer products such as **Sorbitol 70% (Non Crystalline)**, **Food Grade Starch**, **Liquid Glucose**, **Hi-Maltose Syrup (HMS)**, **Malto-Dextrin Powder (MDP)** in the North India. The company has a 40TPD Starch based sweeteners plant and is engaged in manufacturing of Sorbitol (70%) IP and other sweeteners from Starch.

Where as SadaSat Corn Products (P) Limited has a state of art 150 TPD Corn processing plant where it produces high quality Starch/ Modified Starches and its by-products.

The manufacturing plants are fully automated and the products are of highest quality. The agro waste is again utilized for furnaces thus adding to the Pollution control measures. The processes used in the plant are fully environmentally friendly.

The companies are based in Kurukshetra, the land of **GITA** and caters to a large number of downstream industries of consumer products such as Textile, Paper, Food, Confectionery, Pharmaceutical, Toothpaste, Milk Processing, Cosmetics, etc. The company was setup way back in 1980's and is taken care of highly skilled professionals.

II. Introduction To Sorbitol

Sorbitol is a sugar substitute. It is listed under the inactive ingredients listed for some foods and products. Its INS number and E-number is 420. Sorbitol has approximately 60% the sweetness of sucrose (table sugar).

Sorbitol is referred to as a nutritive sweetener because it provides dietary energy: 2.6 kilocalories (11 kilojoules) per gram versus the average 4 kilocalories (17 kilojoules) for carbohydrates. It is often used in diet foods (including diet drinks and ice cream), mints, cough syrups, and sugar-free chewing gum.

It also occurs naturally in many stone fruits and berries from trees of the genus *Sorbus*.

Sorbitol often is used in modern cosmetics as a humectant and thickener. Sorbitol often is used in mouthwash and toothpaste. Some transparent gels can be made only with sorbitol, as it has a refractive index sufficiently high for transparent formulations. It is also used frequently in "sugar free" chewing gum.

Sorbitol sometimes is used as a sweetener and humectant in cookies and other foods that are not identified as "dietary" items.

Advantages with Goya Agro Sorbitol Supplies

Most of the Sorbitol Manufacturing industries are in Gujarat or Maharashtra, Goya Agro has its manufacturing base in Haryana which is in proximity to Industries in Himachal Pradesh and Uttarakhand, the transit time is less and material can be delivered in less than 12 hours of placing of the Purchase Order. KalaAmb and Baddi are approx 90 kms from Our Unit, Haridwar and Dehradun are about 160 Kms. Company has its own fleet of vehicles to deliver the goods hence there will be no pilferage and Adultration of material with water as in case of material coming from Gujarat or Maharashtra and even Sitarganj.

The Company is producing Sorbitol under Drug Manufacturing License No 1080-OSP(H) and is also FSSAI, ISO 9001 and IP/BP/USP certified. The product is of highest quality as required by any Pharmaceutical , Cosmetic or Food Based Company.

DML No.1080-OSP(H)

01744-279448, 8930666048

GOYA AGRO INDUSTRIES LIMITED

GOYA



Factory : Vill. Khanpur Kolian, 6 K.M. from Pipli towards Ambala on G.T. Road, Kurukshetra-136 131

Mailing Address : 1662/13, Urban Estate, Kurukshetra-136 118

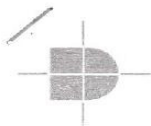
Email : goyaagro10@gmail.com

BATCH REPORT - CERTIFICATE OF ANALYSIS

Date of Report	09-Apr-17	Manufacturing Date	08-Apr-17
		Batch No	GAIL-IP-103
		Expiry Date	5 Years
Product Type	Sorbitol 70% (Non Crystalline)		
Tests	<u>Observation</u>	<u>Specification (Limit)</u>	
1 Characters	Complies	Clear , colorless , syrupy liquid	
2 Identification	Complies	A The principal peak in the chromatogram obtained with the test solution is similar in retent on time to the principal peak in the chromatogram obtained with reference solution (a)	
	+2.1 Degrees	B Angle of Rotation is +1.5 to +3.5 Degrees	
3 Appearance	Complies	C Clear Syrupy Liquid at 25 Degree Celsius	
	Complies	Clear and Colorless	
4 Conductivity	5.0	NMT 10 micro s/cm	
5 Reducing Sugars	0.15%	Max 0.2%	
6 Lead	Complies	Max 0.5 PPM	
7 Nickel	Complies	Max 1.0 PPM	
3 Water	29.82%	Between 28% to 32 %	
Assay		Between 72 to 92% w/w of D	
A) D-Glucitol on		Glucitol calculated on the	
9 Anhydrous basis	88.03%	anhydrous basis by Liquid	
B) Assay (as		Chromatography	
10 Anhydrous sub.)	70.18%	Between 68% to 72%	


Signature Lab Chemist

Certificate Of Analysis - Independent Lab



DOVE RESEARCH & ANALYTICS

(A unit of Dove Chemicals Ltd.)
A Govt. Approved GLP Certified & NABL Accredited Laboratory

Form-39,(150-E(f) Report of test or Analysis by Approved Institution.

Lic No. : 20-LAB-HR

A.R. No. : DA/RM-250316/021

1. SAMPLE SENT BY: **GOYA AGRO INDUSTRIES LTD, PIPLI (HARYANA)**

2. Reference No.: N.M.

3. SAMPLE RECEIVED ON: **25/03/2016**

4. NAME OF SAMPLE: **SORBITOL SOLUTION 70%**

5. Detail of Raw material/ final product (in bulk/finished pack)

(a) Manufactured by: N.M.

(b) Batch No.: **1**

(c) Mfg. Lic. No.: N.M.

(d) Sample Qty.: 100 ml

(e) B. Size: N.M.

(f) D/M: 23/03/2016

(g) D/E: N.M.

6. DATE OF REPORT: **26/03/2016**

7. Protocol of test applied: **IP**

Description : **Clear colourless liquid.**

TEST PARAMETERS

OBTAINED

LIMIT

Identification

Complies

To Comply

Water

30.4 %

28.00 % - 32.00 %

Conductivity

1.30 μ Scm⁻¹

NMT 10 μ Scm⁻¹

Nickel

Complies

NMT 1 ppm

Reducing Sugars

0.16 %

NMT 0.2 %

Reducing Sugars after hydrolysis

6.57 %

NMT 9.3 %

Specific Optical Rotation

+2.04°

+1.5° to 3.5°

Lead

Complies

NMT 0.50 ppm

Assay

of D-Glucitol (By HPLC)

88.73 %

72.00 - 92.00 %

(on anhydrous basis)

(on anhydrous basis)

In the opinion of the undersigned, the sample referred to above is of Standard Quality / ~~is not of Standard Quality as defined in the Drugs and Cosmetics Act and the Rules made under for the reasons given below in respect to Test(s) mentioned above.~~

THE SAMPLE CONFORMS TO SPECIFICATION W.R.T THE ABOVE TESTS


Person-in charge of testing

- Note.
1. The result listed refers only to the tested samples & applicable parameters; endorsement of products is neither inferred nor implied.
 2. Total liability of our institute is limited to the invoiced amount.
 3. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
 4. Sample drawn and submitted by the party for Analysis unless otherwise stated.

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Tel. : +91-172-2595298, 5010126 E-mail : drachd@gmail.com
URL : www.doverresearchlab.com

Goya Agro Industries Limited

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2017