

## Red 300 WS

### Product Data Sheet

Version: 2 DS EU EN 07-13-2017

#### Description

Red 300 WS is a red liquid produced by extraction of carminic acid from the cochineal insect (*Dactylopius coccus Costa*) and annatto pigments from the seeds of the annatto tree (*Bixa orellana L.*).

#### Material No:

705548

#### Ingredients:

Carmine (E 120), Annatto (E 160b), Water, Potassium hydroxide (E 525), Citric acid (E 330).

#### Raw Material; Source; Origin; Function

Carmine (E 120); Cochineal insect; South America; Color

Annatto (E 160b); Annatto seed; Africa; Color

Water; Water; EU; Carrier

Potassium hydroxide (E 525); Synthetic; EU; Acidity regulator

Citric acid (E 330); Sugar cane/Sugar beet; South America/Europe/Middle East; Acidity regulator

#### Composition

Details on our ingredient breakdown are confidential. For further purposes rough ranges can be provided after signing our Chr. Hansen Confidentiality Agreement.

#### Palm Oil

The ingredients used for this product are not derived from palm oil.

#### Ethanol

Ethanol is not used as ingredient in this product.

#### Solvents

In compliance with EU Regulation 231/2012/EU and later amendments.

#### Contaminants

This product is in compliance with EU Regulation 231/2012/EU with later amendments.

#### Enzymes

No enzymes used in the production of this product.

#### GMO and Identity Preserved

This product is free of GM and LM labeling according to the European Union (EU) Regulation; 1829/2003 and 1830/2003. Chr. Hansen has identified raw materials containing soy, maize, sugar beet and rapeseed, and based on a risk assessment for each raw material including evaluation of the traceability system at our vendors, we have decided that the existing procedures and systems in place are sufficient to ensure that Chr. Hansen complies with the above mentioned legislation.

Based on the above we do not require certified IP-systems (Identity Preserved) at our vendors.

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### Natural status

According to existing EU food regulations there is no definition of the naturalness of colors. Therefore Chr. Hansen has established a position on naturalness of colors based on NATCOL (Position on the Definition of the term "Natural color") and CODEX positions.

Product Status: Natural derived color (N2)

This is a color substance that is derived from plant, animal, mineral or microbiological source. The color substance is derived through traditional processing and/or appropriate physical processing (including distillation and solvent extraction).

The process does not modify the chemical nature of the chromophore of the coloring substance, however, intentionally renders the color substance more suitable for use in targeted food applications.

(Above refers to the NATCOL Position on the Definition of the term 'Nature derived color')

### Microbiological method references

Total viable count = ISO 4833-2:2013

Total Yeast and Moulds = ISO 21527-1,2:2008

Total Enterobacteriaceae = ISO 21528-2:2004

Aerobic sporeforming bacteria = ISO 4833-2:2013 mod (Heat treated 10-12 minutes at 80°C)

Sulphite reducing clostridia = ISO 15213:2003

Salmonella = ISO 6579:2002, A1:2007

Listeria monocytogenes = Bio 12/2-06-94 VIDAS

E. coli = ISO 16649-2:2001

S. aureus = ISO 6888-3:2003

Tested according to monitoring plan.

### Nano labelling

Regulation 1169/2011/EU on the provision of food information to consumers requires that all ingredients present in the form of engineered nanomaterials need to be clearly indicated in the list of ingredients as from 13 December 2014. Regulation 1169/2011/EU provides a definition of engineered nanomaterial in Article 2 (t) and in addition to this definition the EU Commission has in Commission Recommendation 2011/696/EU given their recommendation on the definition of nanomaterial.

As a new nano definition is currently in preparation and as application of nano-labelling is not straightforward as is, Chr. Hansen has decided to follow the ELC nano position as expressed in the ELC Guidance on the application of labelling requirements of engineered nanomaterials in foods. This Guidance is generally recognized by ELC, FoodDrinkEurope and NATCOL member companies.

Based on above, we - to the best of our knowledge - confirm that this product will not require nano labeling.

### Non-irradiation / Non-ionization

Chr. Hansen hereby declares that our color products, flavor products, coloring foodstuff products and NutriPhy® products have not been exposed to any irradiation in the manufacturing process.

This material complies with the Commission Directive 1999/2 and later amendments.

### Country of Processing

Denmark

### Production site

Manufactured by Chr. Hansen Natural Colors A/S, Denmark

### Supplier's certifications

Certifying body Bureau Veritas ( BVQI ): ISO 9001, ISO 14001, FSSC 22000 and OHSAS 18001

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### Pasteurization

This product has not been pasteurized. Please refer to the Flow Sheet document for further information of the process.

### Foreign bodies

Filter: Max 500 µm

### Packaging

Size 10 kg

Type White plastic can 10 l

#### Characteristics

Material used for can: HDPE

Empty can weight: app. 429 g

Dimensions can: 310 mm x 190 mm x 236 mm

Height pallet: Stable height is 3 cans which corresponds to 1258 mm without pallet height.

Number of cans/pallet: 20 cans in one layer and max. 60 per pallet

EU pallet (Wood) 1200x800x150 mm + plastic wrapping.



### Batch number information

5-10 digit code produced by ERP (SAP) system. No intelligence attribute to the code. We have defined a global procedure for batch tracing and it will be conducted within 8 hours.

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### Remaining shelf life

Total shelf life less than 8 months: 50 % left of shelf life upon delivery is guaranteed.

Total shelf life more than 8 months: At least 4 months left at the time of delivery

### Shelf life after opening the containers

If products are opened or kept at other temperatures than recommended, Chr. Hansen cannot guarantee full shelf life and quality of the product.

However, to the best of our knowledge and based on our expertise, products containing preservatives, acetic acid or our OS-products can normally be kept at ambient temperature for a couple of days. All other products should be kept cold and used within 1-2 days. Please contact your Chr. Hansen representative for such requests.

### Delivery Leadtime

Please contact the relevant Chr. Hansen representative if you need further information.

### Headquarters:

Chr. Hansen

Boge Allé 10-12

DK-2970 Horsholm

Tel. +45 45 74 74 74

### Emergency number

In general our 24/7 number is +45 45 74 74 74

For the USA Health: 1-800-558-0802 (Monday through Friday, 7:30 AM to 5 PM CST) at other times contact Chemtrec or the local poison control center. Transportation: 1-800-424-9300

For German speaking customers there is a Hotline during office hours available +49 5021 963 333. Outside office hours this number will be directed to our general emergency number.

The recipient of this document acknowledges that any information contained herein is proprietary to Chr. Hansen and confidential in nature and shall be treated as such. Recipient may only use information herein for the purposes for which this document is provided and shall not disclose to any third party any of its content without the prior written consent of Chr. Hansen.

## Red 300 WS

### Product Information

Version: 9 PI EU EN 07-13-2017

Description	Red 300 WS is a red liquid produced by extraction of carminic acid from the cochineal insect ( <i>Dactylopius coccus</i> Costa) and annatto pigments from the seeds of the annatto tree ( <i>Bixa orellana</i> L.).		
Packaging	Material No: 705548	Size 10 kg	Type White plastic can 10 l
Physical Properties	Color:	Red	
	Form:	Liquid	
	Solubility:	Water soluble	
	Odor:	No characteristic odor	
Application	Usage Meat.		
	Restrictions within subcategories to the above EU food categories may appear (Regulation 1129/2011/EU with later amendments). Legislations are not harmonized, therefore national legislation for the given food application should always be consulted.		
	Directions for use Shake the product before use, as pigment may settle during storage. If the color is to be diluted before use, it is preferable to use soft or distilled water. Do not mix with calcium salts.		
Storage and handling	Temperature: Conditions:	4 - 8 °C / 39 - 46 °F Dry, Protect from light	
Shelf life	365 days in unopened containers at the recommended storage temperature.		
Technical Data			
	Annatto/norbixin: % carminic acid(FCCII):	Max. 0.8% Max. 4.5%	
	Alu content, max.:	0,11 % (weight percentage) in laked color	

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pH: 11.50 - 12.10 (direct in liquid)

Relative Density: 1.00 - 1.10

## Microbiological Data

Microbiological Quality:			
Total Viable Count	≤	1000	/g
Total Yeasts and Moulds	≤	100	/g
Total Enterobacteriaceae	≤	10	/g
Aerobic Sporeforming Bacteria	≤	100	/g
Sulphite Reducing Clostridia	≤	10	/g
Salmonella sp.	Absent in	25	g
Listeria monocytogenes	Absent in	25	g
S.aureus	Absent in	1	g
E. coli	Absent in	1	g

Heavy metal residues:

Tested according to monitoring plan to confirm compliance with EU Regulation 231/2012/EU with later amendments.

Pesticide residues:

Tested according to monitoring plan to confirm compliance with EU Regulation 396/2005/EC with later amendments.

## Legislation

The color is in full compliance with EU Food Regulation 178/2002/EC with later amendments, EU Food Additives Regulation 1333/2008/EC with later amendments on food additives and with the specifications for identity and purity given by JECFA and with EU Regulation 231/2012/EC with later amendments for E 120 and E 160b. Conditions of use, use levels and labeling of AI-containing colors are regulated by EU Regulation 380/2012/EU. Please ensure that conditions of use and use levels in final food application are in compliance.

The product is intended for use in food.

## Ingredients:

Carmine (E 120), Annatto (E 160b), Water, Potassium hydroxide (E 525), Citric acid (E 330).

## Labeling

Color: Carmine and Annatto or Color: E 120 and E 160b.

Labeling should be done in accordance with EU Regulation 1169/2011/EU with later amendments on the provision of food information to consumers. Ingredients having no technical effect in the final food product application may be regarded as carry-over (Art. 20) depending of the final application and of the applied dosage.

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Dietary status

Vegetarian: No

Halal: Not certifiable

Technical support

Chr. Hansen's Application and Product Development Laboratories and personnel are available if you need further information.

# SIKKERHEDSDATABLAD

Red 300 WS

Version: 4 DK / DA

Udarbejdet: 25-08-2015

## PUNKT 1. IDENTIFIKATION AF STOFFET/DET KEMISKE PRODUKT OG AF SELSKABET/VIRKSOMHEDEN

### 1.1 Produktidentifikator

Produktnavn: Red 300 WS  
Materiale nr.: 705548  
Safety No: 707275

### 1.2 Relevante identificerede anvendelser for stoffet eller blandingen samt anvendelser, der frarådes

Anvendelse: Til anvendelse i levnedsmidler.

### 1.3 Nærmere oplysninger om leverandøren af sikkerhedsdatabladet

Leverandør: Chr. Hansen A/S  
Bøge Allé 10-12  
DK-2970 Hørsholm  
Tel. +45 45 74 74 74  
SDS@chr-hansen.com

### 1.4 Nødtelefon

Nødtelefon: +45 45 74 74 74

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## PUNKT 2. FAREIDENTIFIKATION

### 2.1 Klassificering af stoffet eller blandingen

Produktet er ikke klassificeret.

### 2.2 Mærkningselementer

Signalord Ingen.

Faresætninger Ingen.

Sikkerhedssætninger Ingen.

Supplerende fareoplysninger

Ingen.

### 2.3 Andre farer

Fysiske og kemiske farer: Produktets farlige egenskaber anses for at være begrænsede.

Mennesker: Langvarig hudkontakt kan medføre rødme og irritation.

Miljø: Store mængder af produktet kan påvirke surhedsgraden (pH-værdien) i vandmiljøet med risiko for skadevirkninger for vandorganismer.



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### PUNKT 3. SAMMENSÆTNING/OPLYSNINGER OM INDHOLDSSTOFFER

#### 3.2 Blandinger

Produktet indeholder: fødevareingredienser.

Indeholder ikke stoffer, der skal angives i henhold til gældende regler.

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### PUNKT 4. FØRSTEHJÆLPSFORANSTALTNINGER

#### 4.1 Beskrivelse af førstehjælpsforanstaltninger

Indånding: Søg frisk luft og forbliv i ro.

Hudkontakt: Fjern forurenede tøj og skyl huden grundigt med vand. Ved hududslet, sår eller andre hudgener: Søg læge og medbring sikkerhedsdatabladet.

Øjenkontakt: Skyl straks med rigeligt vand i op til 15 minutter. Fjern evt. kontaktlinser og spil øjet godt op.

Indtagelse: Skyl munden grundigt. Ved ubehag: Kontakt læge.

#### 4.2 Vigtigste symptomer og virkninger, både akutte og forsinkede

Langvarig hudkontakt kan medføre rødme og irritation.

#### 4.3 Angivelse af om øjeblikkelig lægehjælp og særlig behandling er nødvendig

Symptomatisk behandling.

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### PUNKT 5. BRANDBEKÆMPELSE

#### 5.1 Slukningsmidler

Brandslukningsmiddel vælges under hensyntagen til evt. andre kemikalier.

#### 5.2 Særlige farer i forbindelse med stoffet eller blandingen

Ingen særlige forholdsregler.

#### 5.3 Anvisninger for brandmandskab

Valg af åndedrætsværn ved brand: Følg virksomhedens generelle forholdsregler.

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### PUNKT 6. FORHOLDSREGLER OVER FOR UDSLIP VED UHELD

#### 6.1 Personlige sikkerhedsforanstaltninger, personlige værnemidler og nødprocedurer

Undgå kontakt med huden og øjnene. Følg forholdsreglerne nævnt i dette sikkerhedsdatablad.

#### 6.2 Miljøbeskyttelsesforanstaltninger

Undgå udledning til kloak, jord og vandmiljø.

#### 6.3 Metoder og udstyr til inddæmning og oprensning

Mindre spild skylles bort med rigeligt vand.

Store mængder: Spild opsuges med sugende materiale. Skyl forurenede område med rigelige mængder vand.

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- 6.4 Henvisning til andre punkter  
Vedrørende personlige værnemidler, se punkt 8.  
Vedrørende bortskaffelse, se punkt 13.
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## PUNKT 7. HÅNTERING OG OPBEVARING

- 7.1 Forholdsregler for sikker håndtering  
Håndtering: Undgå kontakt med huden og øjnene. Følg god kemikaliehygiejne.  
Tekniske forholdsregler: Hold arbejdspladsen ren.  
Tekniske foranstaltninger: Ingen særlige krav.
- 7.2 Betingelser for sikker opbevaring, herunder eventuel uforenelighed  
Opbevares i tæt lukket originalemballage. Opbevares på køl. For detaljeret information se PI ark.  
Beskyt mod direkte sollys. Opbevares på et tørt sted.  
Tekniske forholdsregler ved opbevaring: Ingen særlige krav.
- 7.3 Særlige anvendelser  
Ingen tilgængelig information.
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## PUNKT 8. EKSPONERINGSKONTROL/PERSONLIGE VÆRNEMIDLER

- 8.1 Kontrolparametre  
Grænseværdier er listet nedenfor. Ingen data - Ingen grænseværdier oplyst for indholdsstofferne.
- 8.2 Eksponeringskontrol  
Tekniske foranstaltninger: Der skal være effektiv ventilation. Risikoen for indånding af dampe og tåge skal gøres mindst mulig.
- Personlige værnemidler: Personlige værnemidler skal vælges i overensstemmelse med gældende CEN standarder og i samarbejde med leverandøren af personlige værnemidler.
- Åndedrætsværn: Ikke relevant.
- Håndbeskyttelse: Beskyttelseshandsker af nitril anbefales. Andre handsketyper kan anvises af handskeleverandøren. Væsken kan trænge gennem handskerne. Skift derfor hyppigt handsker.
- Øjenbeskyttelse: Ved risiko for kontakt: Beskyttelsesbriller/ansigtsskærm skal anvendes.
- Hudbeskyttelse: Ingen særlige krav.
- Hygiejniske foranstaltninger: Vask hænder efter kontakt.
- Miljøeksponeringskontrol: Ingen.
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## PUNKT 9. FYSISK- KEMISKE EGENSKABER

- 9.1 Oplysninger om grundlæggende fysiske og kemiske egenskaber

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Udseende:	Væske
Farve:	Rød
Lugt:	Ingen karakteristisk lugt
pH:	11,50 - 12,10 (direkte i væsken)
Smeltepunkt:	Ikke relevant
Kogepunkt:	Ikke relevant
Dekomponeringstemperatur:	Ikke relevant
Flammepunkt:	Ikke relevant
Relativ massefylde:	1,00 - 1,10
Opløselighed:	Vandopløselig

## 9.2 Andre oplysninger

Ingen tilgængelig information.

## PUNKT 10. STABILITET OG REAKTIVITET

## 10.1 Reaktivitet

Ingen kendte.

## 10.2 Kemisk stabilitet

Stabil under normale temperaturforhold og anbefalet brug.

## 10.3 Risiko for farlige reaktioner

Ingen kendte.

## 10.4 Forhold, der skal undgås

Undgå eksponering for høje temperaturer eller direkte sollys.

## 10.5 Materialer, der skal undgås

Ingen kendte.

## 10.6 Farlige nedbrydningsprodukter

Ingen kendte.

## PUNKT 11. TOKSIKOLOGISKE OPLYSNINGER

## 11.1 Oplysninger om toksikologiske virkninger

Indånding: Ikke aktuel ved almindelig arbejdstemperatur.

Hudkontakt: Langvarig kontakt kan medføre rødme, irritation og revnedannelse.

Øjenkontakt: Kan medføre forbigående øjenirritation.

Indtagelse: Kan virke irriterende og medføre utilpashed.

Langtidseffekter: Ingen kendte, medmindre det er angivet nedenfor.

## PUNKT 12. MILJØOPLYSNINGER

## 12.1 Toksicitet

Kan medføre en lokal ændring af surhedsgraden i vandmiljøet, som indebærer risiko for skadevirkninger på vandlevende organismer.

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- 12.2 Persistens og nedbrydelighed  
Produktet forventes at være biologisk nedbrydeligt.
- 12.3 Bioakkumuleringspotentiale  
Bioakkumulering: Forventes ikke at være bioakkumulerbar.
- 12.4 Mobilitet i jord  
Produktet er vandopløseligt og kan spredes i vandmiljøet.
- 12.5 Resultater af PBT- og vPvB-vurdering  
Ingen krævede informationer.
- 12.6 Andre negative virkninger  
Ingen kendte.
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## PUNKT 13. FORHOLD VEDRØRENDE BORTSKAFFELSE

- 13.1 Metoder til affaldsbehandling  
Spild og rester bortskaffes i overensstemmelse med kommunens affaldsregulativer.  
EAK-kode: 02 03 99, 02 05 99, 02 06 99, 02 07 99.
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## PUNKT 14. TRANSPORTOPLYSNINGER

Er ikke omfattet af de internationale regler om transport af farligt gods (IMDG, IATA, ADR/RID).

14.1 UN-nummer -

Luft (ICAO/IATA):

14.3 Transportfareklasse(r) -

14.4 Emballagegruppe -

Sø (IMDG):

14.3 Transportfareklasse(r) -

14.4 Emballagegruppe -

EmS -

MFAG -

Land (RID/ADR):

14.3 Transportfareklasse(r) -

14.4 Emballagegruppe -

14.5 Miljøfarer  
Marin forureningsfaktor (IMDG): -

14.6 Særlige forsigtighedsregler for brugeren  
Ingen kendte.

14.7 Bulkransport i henhold til bilag II i MARPOL 73/78 og IBC-koden  
Ikke relevant.

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## PUNKT 15. OPLYSNINGER OM REGULERING

15.1 Særlige bestemmelser/særlig lovgivning for stoffet eller blandingen med hensyn til sikkerhed, sundhed og miljø

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## Nationale reguleringer:

Europa-Parlamentets og Rådets forordning (EF) nr. 1272/2008 af 16. december 2008 om klassificering, mærkning og emballering af stoffer og blandinger og om ændring og ophævelse af direktiv 67/548/EØF og 1999/45/EF og om ændring af forordning (EF) nr. 1907/2006 med ændringer.

Europa-Parlamentets og Rådets forordning (EF) nr. 1907/2006 af 18. december 2006 med ændringer.

Kommissionens beslutning 2000/532/EC som ændret ved beslutning 2001/118/EC om udarbejdelse af en liste over affald og farligt affald i henhold til Kommissionens direktiv 75/442/EEC om affald og direktiv 91/689/EEC om farligt affald, med ændringer.

## 15.2 Kemikaliesikkerhedsvurdering:

Ikke krævet.

## PUNKT 16. ANDRE OPLYSNINGER

Brugeren skal være instrueret i arbejdets udførelse og kende indholdet af dette sikkerhedsdatablad.

Følgende sektioner er reviderede eller indeholder nye informationer: 2, 12, 15, 16.

## Ordlyd af faresætninger

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