

## SAFETY DATA SHEET

### Ac-Di-Sol® SD-711 Croscarmellose Sodium

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



**SDS # :** 130-1-B  
**Revision date:** 2019-05-01  
**Format:** EU  
**Version** 1.529999

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Code(s)** 130-1-B  
**Product Name** Ac-Di-Sol® SD-711 Croscarmellose Sodium  
**Synonyms** Cross-linked Sodium Carboxymethylcellulose

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

**Recommended Use:** Pharmaceutical excipient/Disintegrant  
**Restrictions on Use:** See section 16 for more information

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

DuPont Nutrition Ireland  
Wallingstown  
Little Island  
Cork, Ireland

+353 21 451 7200 (General Information - Cork, Ireland)  
sds.enablers@dupont.com (E-Mail - General Information)

For further information, please contact:

**Contact point** E-Mail: sds.enablers@dupont.com  
Phone: +1 800 255 6837; +1 913 764 8100 (General information - U.S.A.)

\*\*\*

### 1.4. Emergency telephone number

#### **Emergency telephone**

For leak, fire, spill or accident emergencies, call:  
+1 (800) 424-9300 (CHEMTREC - U.S.A.)  
+1 (703) 527-3887 (CHEMTREC - Collect - All Other Countries)  
  
+353 21 451 7200 (DuPont Plant - Cork, Ireland)  
+1 (303) 595-9048 (Medical - U.S. - Call Collect)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture *Regulation (EC) No 1272/2008*

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**2.2. Label elements****Hazard pictograms**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**2.3. Other hazards**

Excessive inhalation of dust can mechanically impede respiration. Due to the hygroscopic properties of the gums, they can form a paste or gel in the airway. Aspiration or inhalation of this product could cause chemical pneumonitis.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

Chemical name	EC-No	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Internally Cross-linked Sodium Carboxymethylcellulose	-	74811-65-7	100	Not classified	Partial REACH Exemption

## Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures**

<b>General Advice</b>	When symptoms persist or in all cases of doubt seek medical advice.***
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if eye irritation develops or persists.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Remove person to fresh air. If breathing is difficult or if discomfort occurs and persists, obtain medical attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Most important symptoms and effects, both acute and delayed</b>	Difficulty breathing. Cough.
--	------------------------------

**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Aspiration or inhalation of this product could cause chemical pneumonitis. Treatment is symptomatic and supportive.
---	---

## Section 5: FIRE FIGHTING MEASURES

**5.1. Extinguishing media****Suitable Extinguishing Media**

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

**Unsuitable extinguishing media**

None known

**5.2. Special hazards arising from the substance or mixture**

Avoid dust formation. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air.). Avoid breathing dust. Powder may become slippery when wet. For personal protection see section 8.

For further clean-up instructions, call DuPont Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

See Section 12 for additional Ecological Information.

**6.3. Methods and material for containment and cleaning up****Methods for Containment**

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

**Methods for cleaning up**

Sweep, vacuum or shovel into suitable containers for disposal. Nonsparking tools should be used. Washdown water is not recommended. Powder may become slippery when wet.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Handling**

Handle in accordance with good industrial hygiene and safety practice. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powdered material can build static electricity when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmosphere. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage**

Store at less than 25 °C, in tightly closed containers. Keep out of direct sunlight. Store in dry environment away from heat and sources of ignition, i.e., steam pipes, radiant heaters, hot air vents or welding sparks. Do not store with strong smelling materials.

**7.3. Specific end use(s)****Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering measures** It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression or an oxygen-deficient environment. Use only appropriately classified electrical equipment and powered industrial trucks.

**Personal protective equipment**

**Eye/Face Protection** Safety glasses.

**Hand Protection** Protective gloves.

**Skin and Body Protection** Minimize skin contamination by following good industrial hygiene practices.

**Respiratory Protection** Local nuisance dust standards apply. In case of insufficient ventilation wear suitable respiratory equipment.

**General information** Protective engineering solutions should be implemented and in use. These recommendations apply to the product as supplied. If the product is used in mixtures, contact an appropriate protective equipment supplier or industrial hygienist for more information.

**Environmental exposure controls** No information available.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical State</b>	Solid
<b>Appearance</b>	Free flowing powder Dry powder
<b>Odor</b>	Odorless
<b>Color</b>	No information available
<b>Odor threshold</b>	No information available
<b>pH</b>	5.0 - 7.0
<b>Melting point/freezing point</b>	No information available
<b>Boiling Point/Range</b>	No information available
<b>Flash point</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	
<b>Flammability Limit in Air</b>	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	1 - 10% 10% maximum (% by weight)
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	No information available

**Oxidizing properties** No information available

**9.2. Other information**

**Softening point** No information available  
**Molecular weight** No information available  
**VOC content (%)** No information available  
**Relative density** No information available  
**Bulk density** No information available  
**K<sub>st</sub>** >0 bar m/s

## Section 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

Not applicable

**10.2. Chemical stability**

Stable under recommended storage conditions.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Static electricity might be sufficient to ignite dust clouds. Possibility of ignition will depend on the minimum ignition energy (MIE) and the type of operations undertaken with the material. MIE values are not provided in this SDS.

**10.3. Possibility of hazardous reactions****Hazardous polymerization**

Hazardous polymerization does not occur.

**Hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Dust formation. Excessive heat. Humid air. Sparks.

**10.5. Incompatible materials**

Oxidizing agents, Strong acids.

**10.6. Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions: Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>).\*\*\*

## Section 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects****Acute toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

**Component Information**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Internally Cross-linked Sodium Carboxymethylcellulose	> 5050 mg/kg (Rat)	> 2000 mg/kg (rabbit)	> 0.13 mg/L (4-hr) (Rat)*

\* No mortality was observed at the maximum attainable concentration.

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Sensitization</b>	Not expected to be sensitizing based on the components.
<b>Chronic toxicity</b>	Product does not present a chronic toxicity hazard based on known or supplied information.
<b>Mutagenicity</b>	No known mutagenic or teratogenic effects.
<b>Carcinogenicity</b>	Contains no ingredient listed as a carcinogen.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b>STOT - single exposure</b>	None known.
<b>STOT - repeated exposure</b>	None noted in chronic animal studies.
<b>Aspiration hazard</b>	Aspiration may cause chemical pneumonitis. Excessive inhalation of dust can mechanically impede respiration.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

The environmental impact of this product has not been fully investigated.

### 12.2. Persistence and degradability

Expected to biodegrade, based on component information.

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

### 12.4. Mobility in soil

#### **Mobility in soil**

No information available.

#### **Mobility**

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

None known

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### **Waste from residues / unused products**

Dispose of in accordance with the European Directives on waste and hazardous waste.

#### **Contaminated Packaging**

Dispose of in accordance with federal, state and local regulations.

## Section 14: TRANSPORT INFORMATION

**IMDG/IMO**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine Pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

**RID**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

**ADR/RID**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

**ICAO/IATA**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union****Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)  
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not Applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable

**International Inventories**

This product is intended for use as a food additive in foodstuffs within the scope of Regulation (EU) 1333/2008, or as an additive in animal feedingstuffs within the scope of Regulation (EC) 1831/2006, or for use in medicinal products for human or veterinary use within the scope of Regulation (EC) No 726/2004, Directive 2001/82/EC and Directive 2001/83/EC. When used as such, Title II

(Registration) of Regulation 1907/2006 (REACH) does not apply.

\*\*\*

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Internally Cross-linked Sodium Carboxymethylcellulose 74811-65-7					X		X	X

## 15.2. Chemical safety assessment

No information available

## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	CAS (Chemical Abstracts Service)
Ceiling:	Maximum limit value:
DNEL:	Derived No Effect Level (DNEL)
EINECS:	EINECS (European Inventory of Existing Chemical Substances)
GHS:	Globally Harmonized System (GHS)
IATA:	International Air Transport Association (IATA)
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Dangerous Goods (IMDG)
LC50:	LC50 (lethal concentration)
LD50:	LD50 (lethal dose)
PBT:	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STEL:	Short term exposure limit
SVHC:	SVHC: Substances of Very High Concern for Authorization:
TWA:	time weighted average
vPvB:	very Persistent and very Bioaccumulative

Revision date: 2019-05-01

Reason for revision: \*\*\* Indicates updated section. \*\*\*

#### Disclaimer

Refer to NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, for safe handling. DuPont Nutrition USA, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of DuPont Nutrition USA, Inc., DuPont Nutrition USA, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information. \*\*\*

#### Prepared By:

DuPont Logo - Trademark of DuPont Nutrition USA, Inc.

© 2019 DuPont Nutrition USA, Inc. All Rights Reserved.

#### Product Suitability

The information contained in this document (as well as any advice or assistance) is provided by DuPont Nutrition USA, Inc. only as a courtesy and is intended to be general in nature. Any uses suggested by DuPont Nutrition USA, Inc. are



presented only to assist our customers in exploring possible applications. DuPont Nutrition USA, Inc. makes no warranty, express or implied, as to its accuracy or completeness, or the results to be obtained from such information, advice or assistance. Each customer is solely responsible for determining whether the DuPont Nutrition USA, Inc. products are suitable for such customer's intended use, and for obtaining any necessary governmental registrations and approvals for such customer's production, marketing, sale, use and/or transportation of finished goods using or incorporating the DuPont Nutrition USA, Inc. products.

**End of Safety Data Sheet**