

# Material Safety Data Sheet

NO.: A001R140528067001

Date: Feb 25, 2016

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# MSDS

**Samples Name:** PLAY DOUGH

**Model:** /

**Client Name:** Pacon Corporation

**Client Address:** 2525 North Casaloma Drive  
Appleton, WI 54913-8865  
PH: 800-333-2545

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## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**Product Name:** PLAY DOUGH

**Manufacturer:** Pacon Corporation

**Address:** 2525 North Casaloma Drive, Appleton, WI 54913-8865

**Tel:** 800-333-2545

**Emergency Telephone:** 800-222-1222

### Section 2 - Hazards Summarizing

**Fatality grade:** Classification according to OSHA Hazard Communication Standard ( 29 CFR 1910. 1200)

Chemical Name	CAS No.	Classification		Labelling		
		Hazard Class and Category Code(s)	Hazard Statement Code(s)	Pictogram Signal Word Code(s)	Hazard Statement Code(s)	Suppl. Hazard statement code(s)
calcium chloride	10043-52-4	Eye Irrit. 2	H319	GHS07 Wng	H319	/

**Pictogram:**

GHS07



Exclamation mark

**Invasion route:** Skin contact, Eyes contact, Inhalation, Ingestion

**Health hazards:** No special hazards under normal use.

**Environment hazards:** No known significant effects or critical hazards.

**Burn & burst danger:** Not available

### Section 3 -Composition/Information on Ingredients

Substance  Admixture

Composition:

Chemical Name	In % By Weight	CAS No.	EC No.	Molecular Formula
Violet				
+/-Cl 51319 (pigment violet 23)	0.51	6358-30-1	228-767-9	C <sub>34</sub> H <sub>22</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>2</sub>
wheat flour	41.98	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl

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Chemical Name	In % By Weight	CAS No.	EC No.	Molecular Formula
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
White				
+/- CI 77891 (titanium dioxide)	0.51	13463-67-7	236-675-5	TiO <sub>2</sub>
wheat flour	41.98	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Blue				
+/- CI 52015 (basic blue 9)	0.42	61-73-4	200-515-2	C <sub>16</sub> H <sub>18</sub> ClN <sub>3</sub> S
wheat flour	42.07	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>

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Chemical Name	In % By Weight	CAS No.	EC No.	Molecular Formula
Green				
+/- CI 74260 (pigment phthalocyanine green 7)	0.34	1328-53-6	215-524-7	C <sub>32</sub> H <sub>3</sub> Cl <sub>15</sub> CuN <sub>8</sub>
wheat flour	42.15	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Yellow				
+/- CI basic yellow 40	0.3	35869-60-4	252-770-4	C <sub>23</sub> H <sub>27</sub> N <sub>3</sub> O <sub>6</sub> S
wheat flour	42.19	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Red				
+/- CI 12474 Pigment red 170	0.25	2786-76-7	220-509-3	C <sub>26</sub> H <sub>22</sub> N <sub>4</sub> O <sub>4</sub>
wheat flour	42.24	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>

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Chemical Name	In % By Weight	CAS No.	EC No.	Molecular Formula
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Pink				
+/- CI 45405 (acid red 98)	0.26	6441-77-6	228-767-9	C <sub>20</sub> H <sub>4</sub> Br <sub>4</sub> Cl <sub>2</sub> K <sub>2</sub> O <sub>5</sub>
+/- CI 77891 Titanium Dioxide	0.04%	13463-67-7	2366-675-5	NA
wheat flour	42.19	84012-44-2	281-699-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Orange				
+/-CI 12367 (pigment orange 38)	0.27	12236-64-5	235-464-5	C <sub>26</sub> H <sub>20</sub> ClN <sub>5</sub> O <sub>4</sub>
wheat flour	42.22	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>

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Chemical Name	In % By Weight	CAS No.	EC No.	Molecular Formula
Skin				
+/- CI Basic yellow 40	0.08	35869-60-4	552-770-4	C <sub>23</sub> H <sub>27</sub> N <sub>3</sub> O <sub>6</sub> S
+/- CI 77891 (titanium dioxide)	0.26	13463-67-7	236-675-5	TiO <sub>2</sub>
wheat flour	42.15	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Flesh				
+/- CI 12474 Pigment red 170	0.08	2786-76-7	220-509-3	C <sub>20</sub> H <sub>4</sub> Br <sub>4</sub> Cl <sub>2</sub> K <sub>2</sub> O <sub>5</sub>
+/- CI 77891 (titanium dioxide)	0.26	13463-67-7	236-675-5	TiO <sub>2</sub>
wheat flour	42.15	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Brown				
+/- CI 12474 Pigment red 170	0.16	2786-76-7	220-509-3	C <sub>20</sub> H <sub>4</sub> Br <sub>4</sub> Cl <sub>2</sub> K <sub>2</sub> O <sub>5</sub>
+/- CI 74260 (pigment green 7)	0.18	1328-53-6	215-524-7	C <sub>32</sub> H <sub>3</sub> Cl <sub>15</sub> CuN <sub>8</sub>
wheat flour	42.15	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>

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Chemical Name	In % By Weight	CAS No.	EC No.	Molecular Formula
Bronze				
+/-CI 12367 (pigment orange 38)	0.08	12236-64-5	235-464-5	C <sub>26</sub> H <sub>20</sub> ClN <sub>5</sub> O <sub>4</sub>
+/- C.I. 77491 Pigment red 101	0.12	1309-37-1	215-168-2	Fe <sub>2</sub> O <sub>3</sub>
+/- C.I. 77266 Carbon black	0.14	1333-86-4	215-609-9	C
wheat flour	42.15	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Mahogany				
+/- CI 45405 (acid red 98)	0.25	6441-77-6	228-767-9	C <sub>20</sub> H <sub>4</sub> Br <sub>4</sub> Cl <sub>2</sub> K <sub>2</sub> O <sub>5</sub>
+/- C.I. 77266 Carbon black	0.05	1333-86-4	215-609-9	C
wheat flour	42.19	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>
Terra Cotta				
+/- CI 45405 (acid red 98)	0.12	6441-77-6	228-767-9	C <sub>20</sub> H <sub>4</sub> Br <sub>4</sub> Cl <sub>2</sub> K <sub>2</sub> O <sub>5</sub>
+/- CI 77891 (titanium dioxide)	0.14	13463-67-7	236-675-5	TiO <sub>2</sub>
+/-CI 12367 (pigment orange 38)	0.04	12236-64-5	235-464-5	C <sub>26</sub> H <sub>20</sub> ClN <sub>5</sub> O <sub>4</sub>
wheat flour	42.19	84012-44-2	281-689-7	NA
water	41.84	7732-18-5	231-791-2	H <sub>2</sub> O
sodium chloride	6.32	7647-14-5	231-598-3	NaCl
calcium chloride	5.9	10043-52-4	233-140-8	CaCl <sub>2</sub>
mineral oil	2.53	8012-95-1	232-384-2	NA
citric acid	0.42	77-92-9	201-069-1	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>
sodium benzoate	0.42	532-32-1	208-534-8	C <sub>7</sub> H <sub>5</sub> NaO <sub>2</sub>
potassium phosphate	0.08	7778-77-0	231-913-4	KH <sub>2</sub> PO <sub>4</sub>

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Abbreviation: CAS: Chemical Abstract Service

US: US Inventory of Existing Commercial chemical Substances

NA: Not apply

## Section 4 - First Aid Measures

**Skin contact:** Remove contaminated clothes and rinse the skin with plenty of water.

**Eyes contact:** Lifting the upper and lower eyelids, flush the eyes with plenty of water or saline water. Get medical aid.

**Inhalation:** Remove from exposure and move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

**Ingestion:** Gargle, Get medical aid.

## Section 5 - Fire Fighting Measures

**Danger characteristic:** The product can't burn.

**Hazardous combustion products:** Not applicable.

**Fire-Fighting method & media:** When the fire broke out around, allowing the use all sorts of methods to put out the fire.

## Section 6 –Accidental Release Measures

**Emergency treatment:** Small amount of divulgence: clean off. Massive divulgence: recycle or transport to waste treatment place for handling.

## Section 7 - Handling and Storage

**Handling:** Supply with sufficient partial air exhaust. The operating staff must have received special training and abide by the operating regulations. It is advised that the staff wear protective gloves and work clothes. Take care when lifting and handling in case of damaging the package.

**Storage:** Keep the product in the cool and well-ventilated place. Keep the container closed. No mixing storage. The storage place should be equipped with devices for divulgence handling and suitable shelter materials.

## Section 8 - Exposure Controls and Personal Protection

**Maximum admissible concentration:** No standard yet

**Monitoring Method:** No data.

**Engineering Control:** Supply with sufficient partial air exhaust.

**Respiratory Protection:** No special protection under normal use.

**Eyes Protection:** No special protection under normal use.

**Body Protection:** Wear work clothes

**Hands Protection:** Wear gloves

**Other Protections:** No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

## Section 9 - Physical and Chemical Properties

**Appearance:** Solid

**Color:** Violet, White, Blue, Green, Yellow, Red, Pink, Orange

**Odour:** Odourless

**Solubility:** Insoluble in water

Flash Point : > 100 Degree Centigrade

Flammability : Not available

Ignition temperature: Not available

Auto igniting: Product is not self-igniting

Danger of explosion : Product does not present an explosion hazard.



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## Section 10 - Stability and Reactivity

**Stability:** Stable under normal temperature and pressure

**Distribution of Ban:** Strong oxidizer, strong acid.

**Conditions to Avoid:** None

**Hazardous Polymerization:** No data

**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 - Toxicological Information

The information provided in this section is related to the individual ingredients of the sample.

### Acute Toxicity:

Chemical Name	CAS No.	LC50	LD50
calcium chloride	10043-52-4	/	Oral/mouse/1940mg/kg Oral/rat/1000mg/kg
mineral oil	8012-95-1	Inhalation/rat/2062ppm/4h	Oral/mouse/22000mg/kg Oral/rat/>24000mg/kg
citric acid	77-92-9	/	Oral/mouse/5040mg/kg Oral/rat/3000mg/kg
sodium benzoate	532-32-1	/	Oral/mouse/1600mg/kg Oral/rabbit/2000mg/kg Oral/rat/4070mg/kg
potassium phosphate	7778-77-0	/	Skin/rabbit/>4640mg/kg
+/- CI 52015 (basic blue 9)	61-73-4	/	Oral/mouse/3500mg/kg Oral/rat/1180mg/kg
+/- CI 45405 (acid red 81)	6441-77-6	/	Oral/rat/2870mg/kg

**Sub-acute and Chronic Toxicity:** No data available

**Irritation:** No data available

**Sensitization:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** No data available

**Others:** No data

## Section 12 - Ecological Information

**Eco-toxicity:** No data

**Biodegradable:** No applicable

**Non-biodegradable:** No applicable

**Bioconcentration or biological accumulation:** No applicable

**Other harmful effects:** No data

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## Section 13 - Disposal Considerations

**Nature of waste:** No data

**Waste disposal methods:** Refer to National or Local regulations before handling.

**Attention abandoned:** None

## Section 14 - Transport Information

**Category of dangerous goods:** No applicable.

**UN Number:** No data.

**Packaging Mark:** No data.

**Transport Fashion:** By Sea

**Transport Attentions:** Examine whether the package of the containers are integrate and tight-closed before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. Don't put the goods together with chief food chemicals. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature.

## Section 15 - Regulatory Information

**Regulatory Information:**

ISO 11014-2009 Safety data sheet for chemical products - Content and order of sections.

OSHA 29 CFR 1910.1200 Classification, Labelling and Packaging of Substances and Mixtures.

## Section 16 - Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

**Term:**

Eye Irrit. 2: Serious eye irritation

H319: Causes serious eye irritation.

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**Note:**

- Photo is included

**Photograph of Sample**



PLAY DOUGH

\*\*\*End of MSDS\*\*\*