



Handi-Craft Company
4433 Fyler Avenue
St. Louis, MO 63116
U.S.A.
Telephone: (800) 778-9001

Dr. Brown's™ Natural Baby Diaper Cream
SDS Preparation Date (mm/dd/yyyy): 03/30/2019

Product Code(s): HG054
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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Dr. Brown's™ Natural Baby Diaper Cream**

Product Code(s) : HG054

Recommended use of the chemical and restrictions on use

: Diaper cream.
Restrictions on use: None known.

Chemical family : Mixture

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Handi-Craft Company

4433 Fyler Avenue
St. Louis, MO 63116
U.S.A.

Email address: info@handi-craft.com

Information Telephone # : (800) 778-9001 (Monday - Friday, 8:00 AM - 4:30 PM, Central Time)

24 Hr. Emergency Tel # : Not available.

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Creamy white solid. No odor.

Most important hazards:

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See Section 12 for more environmental information.

This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Label elements

Hazard pictograms

None required according to OSHA Hazcom 2012.

Signal Word

None required according to OSHA Hazcom 2012.

Hazard statement(s)

None required according to OSHA Hazcom 2012.

Precautionary statement(s)

None required according to OSHA Hazcom 2012.

Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. May be mildly irritating to skin and respiratory system. Direct eye contact may cause slight or mild, transient irritation. May cause gastrointestinal irritation. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Synonyms</u>	<u>CAS #</u>	<u>Concentration</u>
Glycerol	1,2,3-Propanetriol Trihydroxypropane Glycerin	56-81-5	1.0 - 7.0
Propylene glycol	Propane-1,2-diol 1,2-Dihydroxypropane	57-55-6	1.0 - 5.0
Octadecanoic acid, monoester with 1,2,3-propanetriol	Glyceryl stearate	31566-31-1	1.0 - 5.0
Alcohols, C16-18	Cetearyl alcohol	67762-27-0	0.1 - 5.0
Mixture, 1-octadecanol with 1-hexadecanol	Cetyl steryl alcohol	8005-44-5	0.1 - 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : If ingested, do not induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions. If irritation or symptoms develop, seek medical attention.
- Inhalation* : If breathed in, move person into fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If irritation or symptoms develop, seek medical attention. Launder clothing before reuse.
- Eye contact* : Rinse thoroughly with plenty of water, also under the eyelids. If irritation or symptoms develop, seek medical attention.

Most important symptoms and effects, both acute and delayed

- : May be mildly irritating to skin and respiratory system. High concentrations of vapors or mists may cause coughing and mild, temporary irritation. Direct skin contact may cause temporary redness.
Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
- Unsuitable extinguishing media* : None known.

Special hazards arising from the substance or mixture

- : Not considered flammable. However, may burn if exposed to extreme heat and flame. Toxic fumes may be released during a fire. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not classified as flammable.



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Hazardous combustion products

- : Carbon oxides; Nitrogen oxides (NOx); Acrolein; Hydrogen chloride; Formaldehyde; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use inert, non-combustible absorbents to assist the pick up of material. Pick up and transfer to properly labeled containers. Contact the proper local authorities. For waste disposal, see Section 13 of the SDS.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
 US CERCLA Reportable quantity (RQ): None applicable.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Provide adequate ventilation. Wear suitable protective equipment during handling. Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers closed when not in use. Wash thoroughly after handling. Keep out of reach of children.

Conditions for safe storage

- : Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles.

Incompatible materials

- : Strong oxidizing agents; Strong bases; Strong acids; Reducing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Glycerol	N/Av	N/Av	15 mg/m ³ (mist, total particulate); 5 mg/m ³ (mist, respirable fraction)	N/Av



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Propylene glycol	10 mg/m ³ (AIHA WEEL)	N/Av	N/Av	N/Av
Octadecanoic acid, monoester with 1,2,3-propanetriol	10 mg/m ³ (inhalable); 3 mg/m ³ (respirable)	N/Av	N/Av	N/Av
Alcohols, C16-18	N/Av	N/Av	N/Av	N/Av
Mixture, 1-octadecanol with 1-hexadecanol	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

- : Provide adequate ventilation. General room ventilation is normally adequate. Where adequate general ventilation is unavailable, use local exhaust ventilation, or other engineering controls.

Respiratory protection

- : If airborne concentrations are above the permissible exposure limits or are not known, respiratory protection may be required. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29CFR 1910.134). Advice should be sought from respiratory protection specialists.

Skin protection

- : For prolonged or repeated contact use protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear sufficient clothing to prevent skin contact.

Eye / face protection

- : Wear as appropriate: Safety glasses with side shields.

Other protective equipment

- : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Creamy white solid.
Odor	: No odor.
Odor threshold	: N/Av
pH	: 5.7 - 6.7
Melting/Freezing point	: N/Av
Initial boiling point and boiling range	: N/Av
Flash point	: N/Av
Flashpoint (Method)	: N/Av
Evaporation rate (BuAe = 1)	: N/Av
Flammability (solid, gas)	: Not classified as flammable.
Lower flammable limit (% by vol.)	: N/Av
Upper flammable limit (% by vol.)	: N/Av
Oxidizing properties	: None known.
Explosive properties	: Not explosive
Vapor pressure	: N/Av
Vapor density	: N/Av
Relative density	: 0.826 - 1.026
Solubility in water	: N/Av
Other solubility(ies)	: N/Av



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Partition coefficient: n-octanol/water

: N/Av

Auto-ignition temperature : N/Av

Decomposition temperature : N/Av

Viscosity : 7000 - 13,000 cSt @ 40°C (104°F)

Volatiles (% by weight) : N/Av

Volatile organic Compounds (VOC's)
: N/Av

Absolute pressure of container

: N/Av

Flame projection length : N/Av

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

Conditions to avoid : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

Incompatible materials : Strong oxidizing agents; Strong bases; Strong acids; Reducing agents

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Mild respiratory irritant. High concentrations of vapors or mists may cause coughing and mild, temporary irritation.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

: May cause mild skin irritation. Direct skin contact may cause temporary redness.

Sign and symptoms eyes

: Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause slight redness.

Potential Chronic Health Effects

: Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

Mutagenicity

: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.



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- Carcinogenicity** : Not classifiable as a human carcinogen. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects** : This product is not expected to cause reproductive or developmental effects.
- Senitization to material** : Not expected to be a skin or respiratory sensitizer.
- Specific target organ effects** : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012), this product is not expected to cause target organ toxicity through single or repeated exposures.
- Medical conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.
- Toxicological data** : Not classified for acute toxicity based on available data. No data is available on the product itself.

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	LC₅₀ (4hr) <u>inh, rat</u>	LD₅₀	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Glycerol	> 2.75 mg/L (mist) (No mortality)	27 200 mg/kg	> 18 700 mg/kg
Propylene glycol	> 158 mg/L (aerosol)	21 800 mg/kg	20 800 mg/kg
Octadecanoic acid, monoester with 1,2,3-propanetriol	N/Av	> 5000 mg/kg	> 2000 mg/kg (No mortality)
Alcohols, C16-18	> 5.25 mg/L (mist) (No mortality)	> 10,000 mg/kg	> 10,000 mg/kg
Mixture, 1-octadecanol with 1-hexadecanol	> 5.25 mg/L (mist) (No mortality) (Read-across)	> 10,000 mg/kg (Read-across)	> 10,000 mg/kg (Read-across)

Other important toxicological hazards

- : None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:				
Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Glycerol	56-81-5	51 000 - 57 000 mg/L (Rainbow trout)	N/Av	None.
Propylene glycol	57-55-6	46 500 mg/L (Fathead minnow)	N/Av	None.
Octadecanoic acid, monoester with 1,2,3-propanetriol	31566-31-1	> 10,000 mg/L (Zebra fish)	N/Av	None.
Alcohols, C16-18	67762-27-0	N/Av	N/Av	None.
Mixture, 1-octadecanol with 1-hexadecanol	8005-44-5	N/Av	N/Av	None.



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Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Glycerol	56-81-5	1851 - 2068 mg/L (Daphnia magna)	N/Av	None.
Propylene glycol	57-55-6	43 500 mg/L (Daphnia magna)	N/Av	None.
Octadecanoic acid, monoester with 1,2,3-propanetriol	31566-31-1	> 100 mg/L (Daphnia magna) (Read-across)	≥ 10 mg/L (Read-across)	None.
Alcohols, C16-18	67762-27-0	N/Av	N/Av	None.
Mixture, 1-octadecanol with 1-hexadecanol	8005-44-5	N/Av	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Glycerol	56-81-5	77 712 mg/L/96hr (Green algae) (QSAR)	N/Av	None.
Propylene glycol	57-55-6	19 000 mg/L/96hr (Green algae)	N/Av	None.
Octadecanoic acid, monoester with 1,2,3-propanetriol	31566-31-1	> 100 mg/L/72hr (Green algae)	N/Av	None.
Alcohols, C16-18	67762-27-0	N/Av	N/Av	None.
Mixture, 1-octadecanol with 1-hexadecanol	8005-44-5	N/Av	N/Av	None.

Persistence and degradability

- : The product itself has not been tested.
- The following ingredients are considered to be readily biodegradable: Glycerol; Glyceryl stearate; Cetearyl alcohol; Cetyl stearyl alcohol; Propylene Glycol.

Bioaccumulation potential

- : The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Glycerol (CAS 56-81-5)	- 1.76	3.162
Propylene glycol (CAS 57-55-6)	- 1.41 to - 0.3	<1
Octadecanoic acid, monoester with 1,2,3-propanetriol (CAS 31566-31-1)	6.1	< 10 (Fish) (Read-across)
Alcohols, C16-18 (CAS 67762-27-0)	6.73 (QSAR)	544.4 (QSAR)
Mixture, 1-octadecanol with 1-hexadecanol (CAS 8005-44-5)	6.73 (QSAR)	544.4 (QSAR)

Mobility in soil

- : The product itself has not been tested.

Other Adverse Environmental effects

- : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

- : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal

- : Dispose in accordance with all applicable federal, state, territory and local regulations.






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RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	Not regulated	None	
49CFR/DOT Additional information					
ICAO/IATA	None.	Not regulated.	Not regulated	None	
ICAO/IATA Additional information					
IMDG	None.	Not regulated.	Not regulated	None	
IMDG Additional information					

Special precautions for user : Appropriate advice on safety must accompany the package.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Glycerol	56-81-5	Yes	None.	None.	No	N/Ap
Propylene glycol	57-55-6	Yes	None.	None.	No	N/Ap
Octadecanoic acid, monoester with 1,2,3-propanetriol	31566-31-1	Yes	None.	None.	No	N/Ap
Alcohols, C16-18	67762-27-0	Yes	None.	None.	No	N/Ap
Mixture, 1-octadecanol with 1-hexadecanol	8005-44-5	NL	None.	None.	No	N/Ap



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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:
 None.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Glycerol	56-81-5	No	N/Ap	No	Yes	Yes	No	Yes	Yes
Octadecanoic acid, monoester with 1,2,3-propanetriol	31566-31-1	No	N/Ap	No	No	No	No	No	No
Alcohols, C16-18	67762-27-0	No	N/Ap	No	No	No	No	No	No
Mixture, 1-octadecanol with 1-hexadecanol	8005-44-5	No	N/Ap	No	No	No	No	No	No
Propylene glycol	57-55-6	No	N/Ap	No	No	Yes	Yes	Yes	Yes

International Information:

Components listed below are present on the following International Inventory lists:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Glycerol	56-81-5	200-289-5	Present	Present	(7)-338; (2)-242	KE-29297	Present	May be used as a single component chemical under an appropriate group standard.
Propylene glycol	57-55-6	200-338-0	Present	Present	(2)-234	KE-29267	Present	May be used as a single component chemical under an appropriate group standard.
Octadecanoic acid, monoester with 1,2,3-propanetriol	31566-31-1	250-705-4	Present	Present	(2)-669	KE-26398	Present	May be used as a single component chemical under an appropriate group standard.
Alcohols, C16-18	67762-27-0	267-008-6	Present	Present	(2)-217	KE-00315	Present	HSR003485
Mixture, 1-octadecanol with 1-hexadecanol	8005-44-5	616-857-4	Not specifically listed.	Present	Not specifically listed.	KE-05457	Present	Not specifically listed.



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SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
AIHA: American Industrial Hygiene Association
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
EC50: Effective Concentration 50%
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organisation
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SCBA: Self-Contained Breathing Apparatus
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TLV: Threshold Limit Values
TWA: Time Weighted Average
WEEL: Workplace Environmental Exposure Level

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
2. International Agency for Research on Cancer Monographs, searched 2019.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - March 2015 version.
6. California Proposition 65 List - March 8, 2019 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> Handi-Craft Company 4433 Fyler Avenue St. Louis, MO 63116 U.S.A. Website: www.drbrownsbaby.com Telephone: +1 (800) 778-9001 Direct all enquiries to: Handi-Craft Company</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

DISCLAIMER

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